

0.8mm Receptacles .031" [0.8] Centerline - M61 Series 1mm Receptacles .039" [1.00] Centerline - M62 Series



SPECIFICATIONS:

Insulator: Liquid Crystal Polymer (LCP), glass reinforced thermoplastic, rated UL 94V-0

Contacts: Phosphor Bronze

Plating:

S = 5 µin gold nom. (optional 30 µin) to MIL-G-45204, Type II, Grade C over 50 µin nickel underplate to QQ-N-290, Class 2, Grade C

T = 5 µin gold nom. (optional 30 µin) on mating length to MIL-G-45204, Type II, Grade C, 100 µin. tin-lead to MIL-P-81728 on solder-tails

0 = 100 µin tin-lead to MIL-P-81728, Type 1 over 50 µin copper underplate to MIL-C-14550

Electrical:

Operation voltage: 250 VAC max

Current rating: 0.5 Amps max

Contact resistance: 20 mΩ max

Insulation resistance: 500 MΩ min @ 650 VDC between adjacent contacts (75°F and 50% R.H.)

Dielectric withstanding voltage: 500 VDC min RMS (sea level)

Mechanical:

Mating durability: 10 cycles min

Soldering processes: Wave, Vapor-Phase or IR Reflow

Environmental:

Operating temperature: -65°C to +125°C

Processing temperature: 230°C for 60 sec.

MATING OPTIONS:

Headers: M61X-H2XX-XX-01
M62X-H2XX-XX-01

PACKAGING:

Anti-static plastic bags or trays available

0.8mm RECEPTACLES

PART NUMBER LEGEND

M61X-R2XX-XX

MOUNTING

01 = Through-hole
02 = Surface mount

POSITIONS

04 through 80

PLATING

S = 5 µin Gold plated
T = Selective Flash Gold
0 = Tin/Lead

1mm RECEPTACLES

PART NUMBER LEGEND

M62X-R2XX-XX

MOUNTING

01 = Through-hole
02 = Surface mount

POSITIONS

04 through 80

PLATING

S = 5 µin Gold plated
T = Selective Flash Gold
0 = Tin/Lead



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

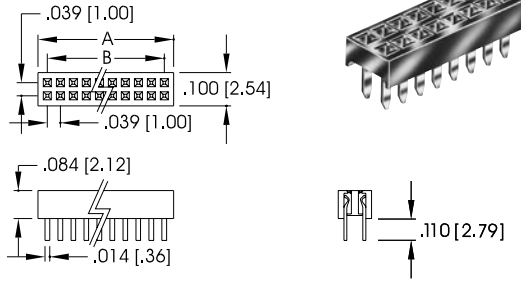
Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

1mm Receptacles .039" [1.00] Centerline 0.8mm Receptacles .031" [0.8] Centerline

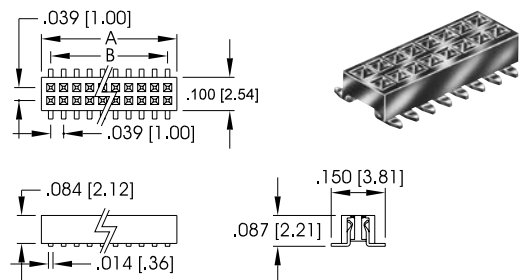


1mm Receptacles

1mm Receptacle - M62X-R2XX-01



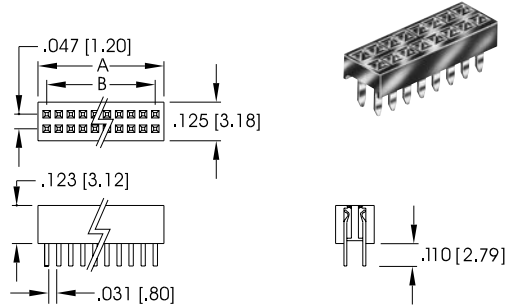
1mm Receptacle - SMT - M62X-R2XX-02



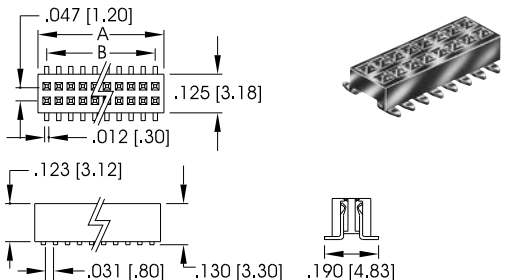
A = .039 [1.00] X No. of Positions Per Row + .017 [0.43]
B = .039 [1.00] X No. of Spaces

0.8mm Receptacles

0.8mm Receptacle - M61X-R2XX-01



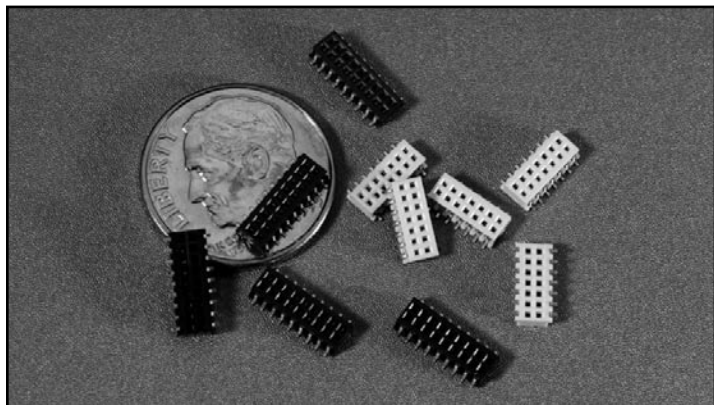
0.8mm Receptacle - SMT - M61X-R2XX-02



A = .031 [0.80] X No. of Positions Per Row
B = .031 [0.80] X No. of Spaces



.039" (1mm) Surface Mount Connector Top/Bottom Entry



4000 SERIES "POST/BOXE"

PART NUMBER LEGEND

40X8-2XX-5X1

- SOLDER TAIL LENGTH**
(SEE SECTION A-A FOR SOLDER TAIL LENGTH OPTIONS)
- NO. OF POSITIONS**
(SEE TABLE 1)
- INSULATOR COLOR**
0 = BLACK
1 = WHITE

MATING HEADERS: 4100 SERIES

Mechanical

Insertion Force / Circuit: .500 lbs. / circuit max. initial insertion force.

Withdrawal Force / Circuit: 1.00 oz. min. / circuit

Durability: 10 cycles of mating & unmating
15 milliohms contact resistance max. increase

Electrical

Current Rating: 0.5 Amp max / contact

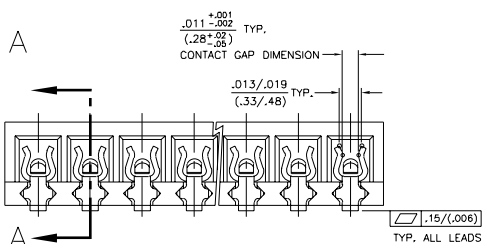
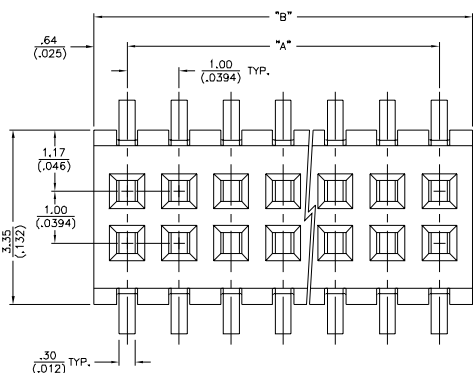
Voltage Rating: 250 VAC

Operating Temperature: -55°C to +125°C

Contact Resistance: 20 mΩ max., initial

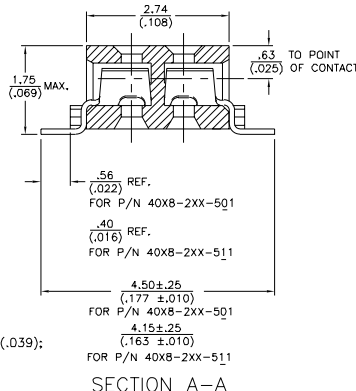
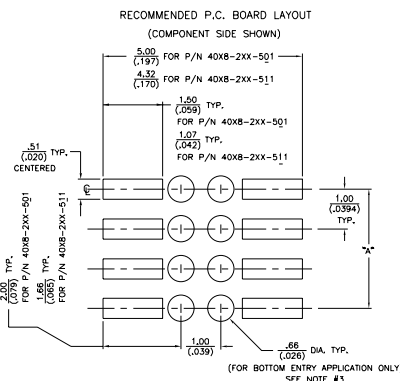
Insulation Resistance: 500 MΩ

Dielectric Withstanding Voltage: 500 volts RMS between adjacent terminals



NOTES:

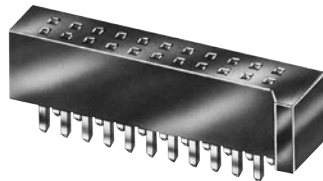
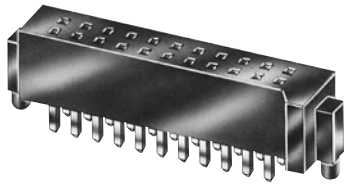
- 1) INSULATOR MATERIAL: 46 NYLON, 30% G/R, UL 94V-0.
COLOR: BLACK FOR P/N 4008-2XX-5X1
WHITE FOR P/N 4018-2XX-5X1
CONTACT MATERIAL: BERYLLIUM COPPER.
- 2) CONTACT FINISH: .00076/ (.000030) GOLD PLATE IN CONTACT AREA;
GOLD FLASH OVER .0013-.0038/ (.000050-.000150) NICKEL
PLATE ALL OVER (-829).
- 3) RECOMMENDED P.C. BOARD THICKNESS FOR BOTTOM ENTRY APPLICATION IS 1.00/ (.039);
FOR BOTTOM ENTRY APPLICATION, USE HEADER PART NO. 410X-21-2XX-02.
- 4) ALL DIMENSIONS ARE IN MM./ (INCHES).



PART NUMBER	NO. OF CIRCUITS	DIM. "A"	DIM. "B"
40X8-202-5X1	4	1.00 (.0394)	2.27 (.089)
↑ -203- ↑	6	2.00 (.0787)	3.27 (.129)
-204-	8	3.00 (.1181)	4.27 (.168)
-205-	10	4.00 (.1575)	5.27 (.207)
-206-	12	5.00 (.1968)	6.27 (.247)
-207-	14	6.00 (.2362)	7.27 (.286)
-208-	16	7.00 (.2756)	8.27 (.326)
-209-	18	8.00 (.3150)	9.27 (.365)
-210-	20	9.00 (.3543)	10.27 (.404)
-211-	22	10.00 (.3937)	11.27 (.444)
-212-	24	11.00 (.4331)	12.27 (.483)
-213-	26	12.00 (.4724)	13.27 (.522)
-214-	28	13.00 (.5118)	14.27 (.562)
-215-	30	14.00 (.5512)	15.27 (.601)
-216-	32	15.00 (.5906)	16.27 (.641)
-217-	34	16.00 (.6299)	17.27 (.680)
-218-	36	17.00 (.6693)	18.27 (.719)
-219-	38	18.00 (.7087)	19.27 (.759)
-220-	40	19.00 (.7480)	20.27 (.798)
-221-	42	20.00 (.7874)	21.27 (.837)
-222-	44	21.00 (.8268)	22.27 (.877)
-223-	46	22.00 (.8661)	23.27 (.916)
-224-	48	23.00 (.9055)	24.27 (.956)
-225-	50	24.00 (.9449)	25.27 (.995)
-226-	52	25.00 (.9843)	26.27 (.1034)
-227-	54	26.00 (.10236)	27.27 (.1074)
-228-	56	27.00 (.10630)	28.27 (.1113)
↓ -229- ↓	58	28.00 (.11024)	29.27 (.1152)
40X8-230-5X1	60	29.00 (.11417)	30.27 (.1192)

.050" Keyed Receptacle

.050" X .050" [1.27 X 1.27] Centerline - M63 Series



PART NUMBER LEGEND

M63X-R2XX-33-XX

MOUNTING

- 01 = Through-hole
- 02 = Surface mount

TOTAL POSITIONS

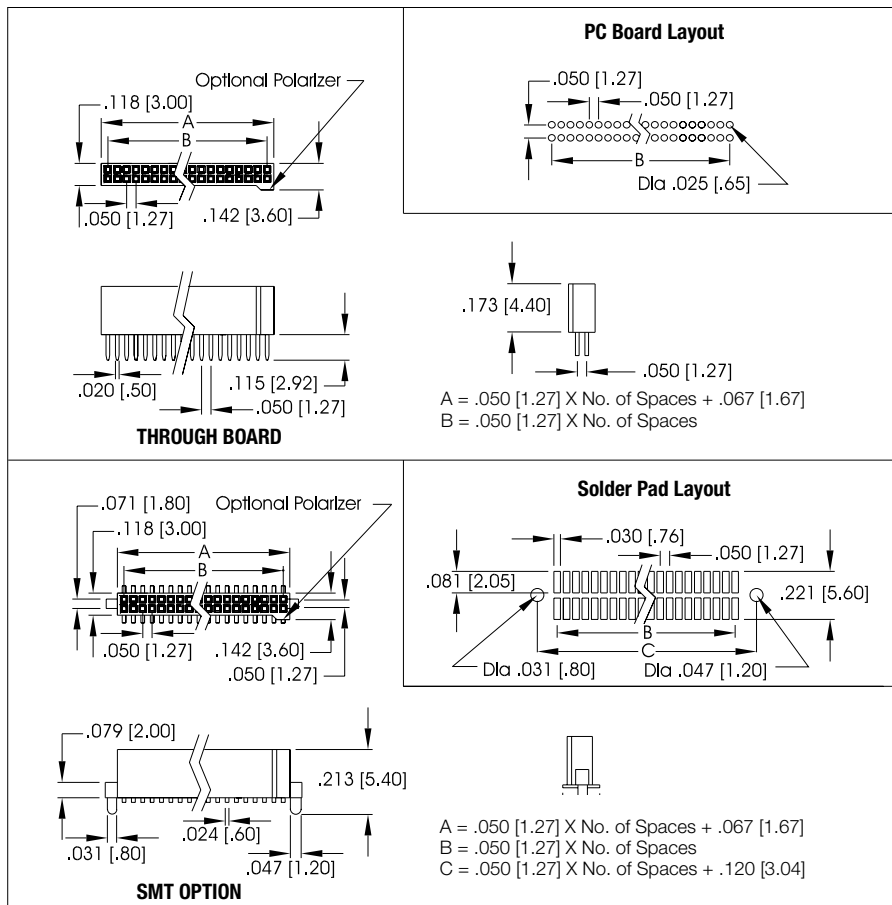
- 04 through 98

PLATING

- S = 5 µin gold plated
- 0 = Tin plated
- T = Select flash gold in contact area tin-lead plated solder tails

OPTIONS: (Add to end of part number)

- NK = No Polarizing Key

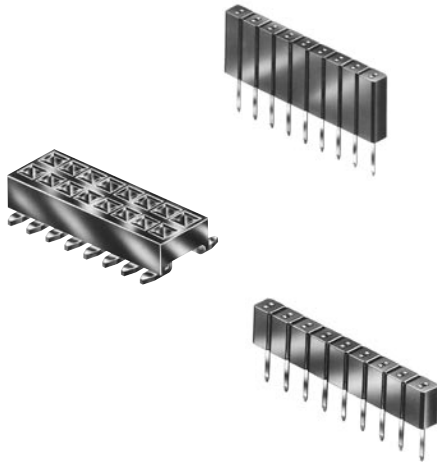


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.050" Receptacle Strips .050" (1.27) Centerline - M63 Series



PART NUMBER LEGEND

M63X-RXXX-XX(P)-XX

SOLDER TAIL LENGTH

- 01 = Standard solder tail for .062"-.125" PCB thickness
- 02 = Surface mount leads (profile 08, 09 only)

LOCATING PEG

- BLANK = No peg
- P = With pegs

PROFILE

- 01 = Standard profile, through hole
- 07 = Low Profile, through hole
- 08 = Dual row, low profile .050" x .050" (SMT)
- 09 = Dual row, low profile .050" x .100" (SMT)

NUMBER OF CIRCUITS

- 1 through 40 (single row)
- 2 through 80 (dual row)

NUMBER OF ROWS

- 1 = Single row
- 2 = Dual row

PLATING

- S = 5 μ m overall gold
- 8 = 30 μ m select gold
- T = Selective Flash Gold
- 0 = Tin

SPECIFICATIONS:

Material:

Insulator: Nylon 6/6T, glass reinforced thermoplastic, rated UL 94V-0 - thru-hole Liquid Crystal Polymer (LCP), glass reinforced thermoplastic, rated UL 94V-0 - SMT

Contacts: Phosphor Bronze

Electrical:

Operation voltage: 250 VAC max

Current rating: 1 Amp max

Contact resistance: 20 m Ω max

Insulation resistance: 1000 M Ω min @ 1000 VDC between adjacent contacts (75° F and 50% R.H.)

Dielectric withstanding voltage: 1000 VAC min RMS (sea level)

Mechanical:

Insertion force: 6 ozs. per contact max

Withdrawal force: 2 ozs. per contact min

Environmental:

Operating temperature: -65°C to +125°C

MATING OPTIONS:

Headers: M63X-HXXX-XX-01

PACKAGING:

Anti-static plastic trays or tubes available



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

Methode Electronics Far East, Pte. Ltd.

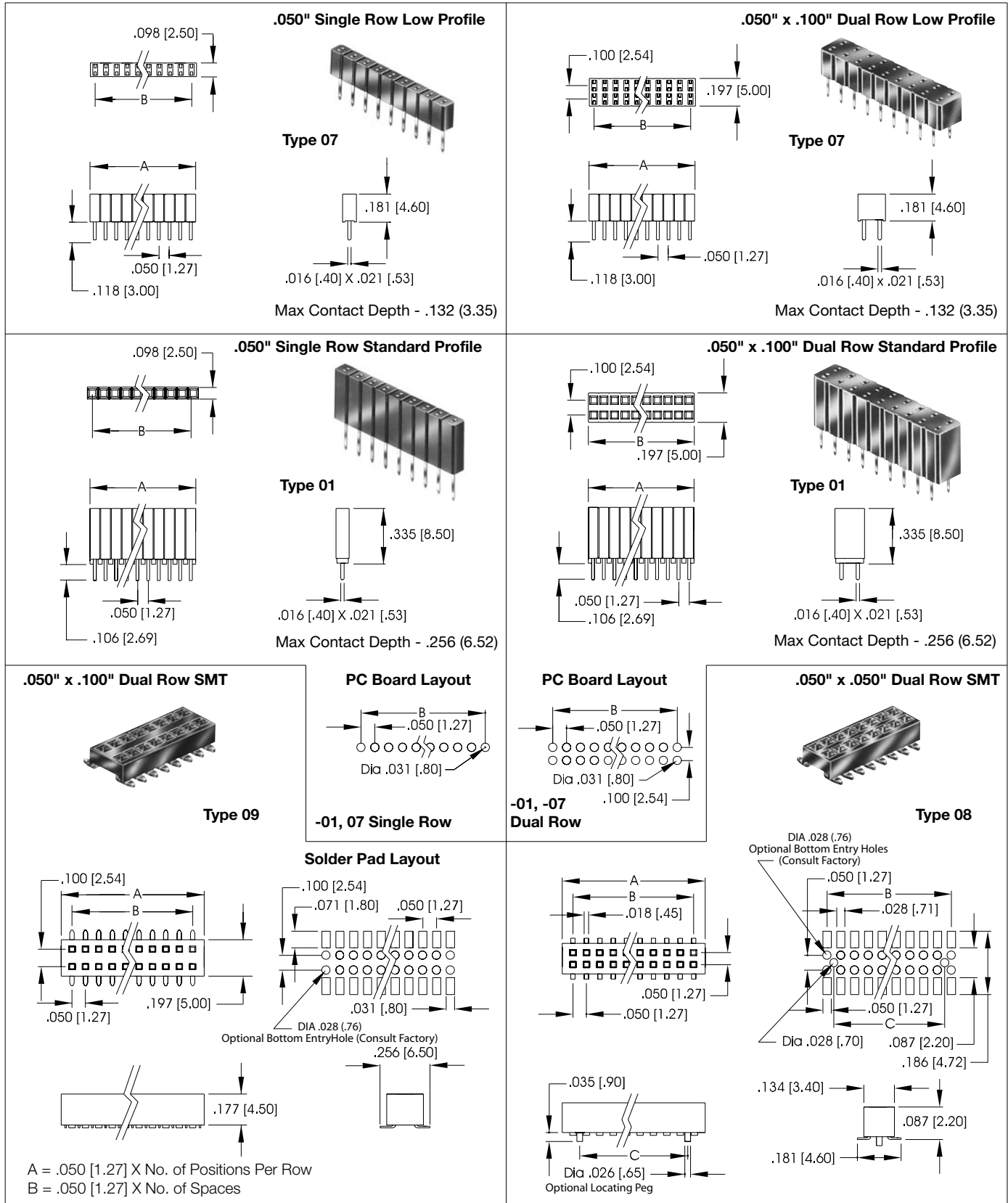
1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

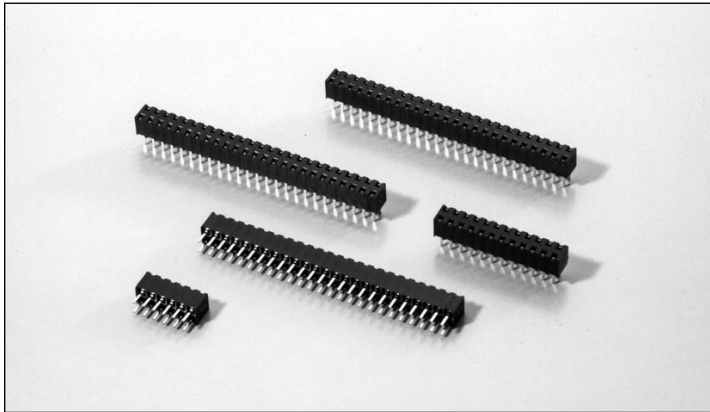
Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.050" Receptacle Strips

.050" (1.27) Centerline - M63 Series



.079" (2mm) Dual Row Through Hole Vertical Connectors



8000 SERIES "POST/BOXE"

PART NUMBER LEGEND

800X-2XX-30X

SOLDER TAIL LENGTH (DIM C)

3 = .110 (2.79)

7 = .050 (1.27)

NUMBER OF POSITIONS PER ROW

2 - 25

CONTACT FINISH

0 = TIN/LEAD

8 = .000030 SELECTIVE GOLD

F = .000015 SELECTIVE GOLD

MATING HEADERS: 8100 SERIES

NOTES:

- INSULATOR MATERIAL: POLYESTER (PCT) UL 94V-0
COLOR: BLACK
- CONTACT MATERIAL: PHOSPHOR BRONZE
- CONTACT PLATING:
 - 8000-2XX-30X: .0001-.0002 90/10 BRITE TIN/LEAD OVER .000050/.000150 NICKEL PLATE.
 - 8002-2XX-30X: .000015 MIN. GOLD PLATE OVER .000050 MIN. NICKEL PLATE
 - 8008-2XX-30X: .000030 SELECTIVE GOLD PLATING AS INDICATED OVER .000050/.000150 NICKEL PLATE ALL OVER; .0002 MIN. TIN/LEAD PLATING ON SOLDER TAIL AS INDICATED.
 - 800F-2XX-30X: .000015 SELECTIVE GOLD PLATING AS INDICATED OVER .000050/.000150 NICKEL PLATE ALL OVER; .0002 MIN. TIN/LEAD PLATING ON SOLDER TAIL AS INDICATED.
- ALL DIMENSIONS ARE IN IN./ (MM)
- CONTACT RETENTION: 1 LB. MINIMUM.

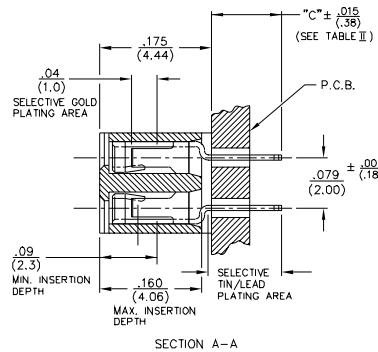
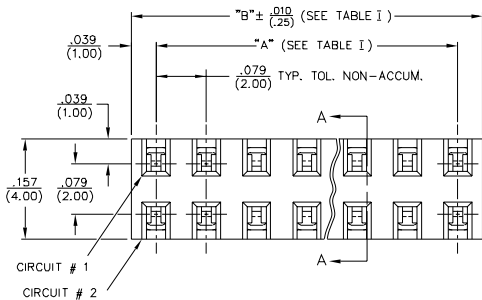


TABLE I

PART NUMBER	NO. OF CIRCUITS	DIM. "A"	DIM. "B"
800X-202-30X	4	.079 (2.00)	.158 (4.00)
-203-	6	.158 (4.00)	.236 (6.00)
-204-	8	.236 (6.00)	.315 (8.00)
-205-	10	.315 (8.00)	.394 (10.00)
-206-	12	.394 (10.00)	.472 (12.00)
-207-	14	.472 (12.00)	.551 (14.00)
-208-	16	.551 (14.00)	.630 (16.00)
-209-	18	.630 (16.00)	.709 (18.00)
-210-	20	.709 (18.00)	.787 (20.00)
-211-	22	.787 (20.00)	.866 (22.00)
-212-	24	.866 (22.00)	.945 (24.00)
-213-	26	.945 (24.00)	1.024 (26.00)
-214-	28	1.024 (26.00)	1.102 (28.00)
-215-	30	1.102 (28.00)	1.181 (30.00)
-216-	32	1.181 (30.00)	1.260 (32.00)
-217-	34	1.260 (32.00)	1.339 (34.00)
-218-	36	1.339 (34.00)	1.417 (36.00)
-219-	38	1.417 (36.00)	1.496 (38.00)
-220-	40	1.496 (38.00)	1.575 (40.00)
-221-	42	1.575 (40.00)	1.654 (42.00)
-222-	44	1.654 (42.00)	1.732 (44.00)
-223-	46	1.732 (44.00)	1.811 (46.00)
-224-	48	1.811 (46.00)	1.890 (48.00)
800X-225-30X	50	1.890 (48.00)	1.968 (50.00)

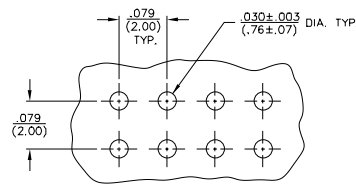


TABLE II	
PART NUMBER	DIM. "C" ± .015 (.38)
800X-2XX-307	.050 (1.27)
800X-2XX-303	.110 (2.79)

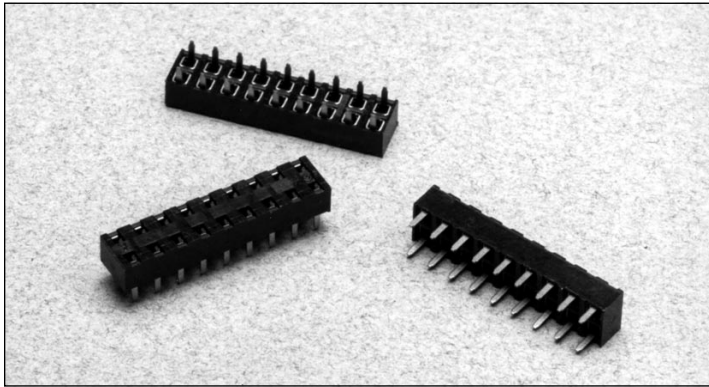


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.079" (2mm) Low Profile Dual Row Through Hole Vertical Connectors



8000 SERIES "POST/BOXE"

PART NUMBER LEGEND

800X-4XX-30X

SOLDER TAIL LENGTH (DIM. C)

3 = .075 (1.90)

7 = .050 (1.27)

NUMBER OF POSITIONS PER ROW

2 - 25

CONTACT FINISH

0 = TIN/LEAD

8 = .000030 SELECTIVE GOLD

F = .000015 SELECTIVE GOLD

MATING HEADERS: 8100 SERIES

NOTES :

- INSULATOR MATERIAL:
800X-4XX-30X - GLASS-FILLED POLYESTER (PCT), UL 94V-0.
COLOR : BLACK
- CONTACT MATERIAL : PHOSPHOR BRONZE.
- CONTACT FINISH :
800X-4XX-30X : .0001-.0002 90/10 TIN/LEAD OVER NICKEL PLATE.
800X-4XX-30X : .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
800X-4XX-30X : .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
800X-4XX-30X : (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
800X-4XX-30X : (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
- ALL DIMENSIONS ARE IN IN./MM)
- CONTACT RETENTION: 1 LB. MINIMUM.

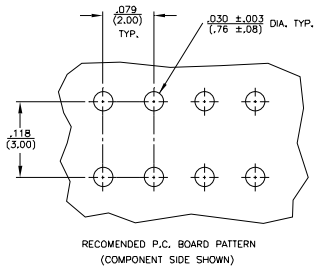
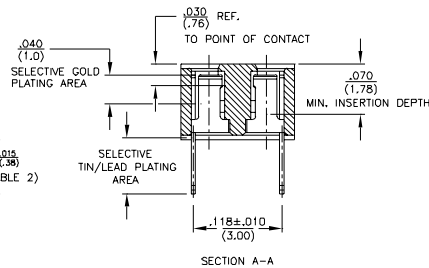
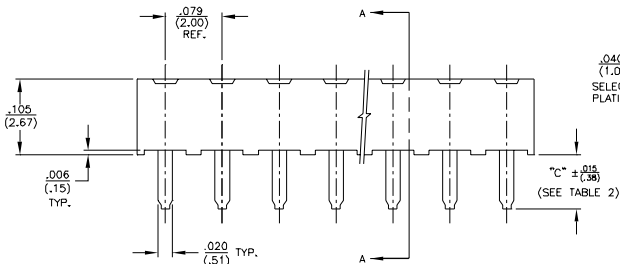
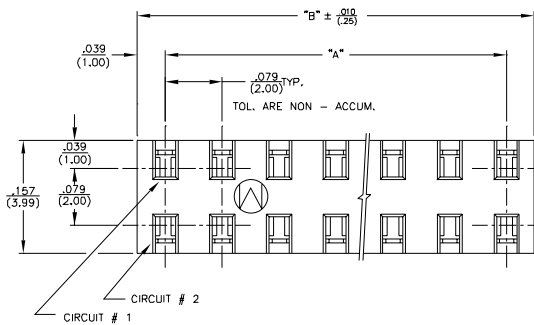


TABLE 1

PART NUMBER	NO. OF CIRCUITS	DIM. "A"	DIM. "B"
80XX-402-30X	4	.079 (2.00)	.158 (4.00)
-403-	6	.158 (4.00)	.236 (6.00)
-404-	8	.236 (6.00)	.315 (8.00)
-405-	10	.315 (8.00)	.394 (10.00)
-406-	12	.394 (10.00)	.472 (12.00)
-407-	14	.472 (12.00)	.551 (14.00)
-408-	16	.551 (14.00)	.630 (16.00)
-409-	18	.630 (16.00)	.709 (18.00)
-410-	20	.709 (18.00)	.787 (20.00)
-411-	22	.787 (20.00)	.866 (22.00)
-412-	24	.866 (22.00)	.945 (24.00)
-413-	26	.945 (24.00)	1.024 (26.00)
-414-	28	1.024 (26.00)	1.102 (28.00)
-415-	30	1.102 (28.00)	1.181 (30.00)
-416-	32	1.181 (30.00)	1.260 (32.00)
-417-	34	1.260 (32.00)	1.339 (34.00)
-418-	36	1.339 (34.00)	1.417 (36.00)
-419-	38	1.417 (36.00)	1.496 (38.00)
-420-	40	1.496 (38.00)	1.575 (40.00)
-421-	42	1.575 (40.00)	1.654 (42.00)
-422-	44	1.654 (42.00)	1.732 (44.00)
-423-	46	1.732 (44.00)	1.811 (46.00)
-424-	48	1.811 (46.00)	1.890 (48.00)
80XX-425-30X	50	1.890 (48.00)	1.968 (50.00)

TABLE 2

PART NUMBER	DIM. "C"	RECOMMENDED P.C. BOARD THICKNESS
80XX-4XX-307	.050 (1.27)	.020 (.51)
80XX-4XX-303	.075 (1.90)	.050 (1.27)

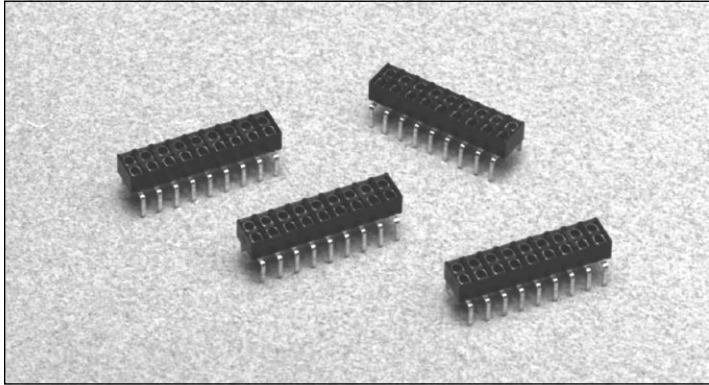


North and South America:
Methode Electronics, Inc. Connector Products
1700 Hicks Road • Rolling Meadows, IL 60008 USA
847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
+353 (0) 61 401222 • Fax: +353 (0) 61 401942
Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
1 Tuas Lane, Jurong Town • Singapore 638610
65-68615444 • Fax: 65-68614777
Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.079" (2mm) Low Profile Dual Row Through Hole Bottom Entry Connectors



8000 SERIES "POST/BOXE"

PART NUMBER LEGEND

800X-4XX-302

NUMBER OF POSITIONS PER ROW

2 - 25

CONTACT FINISH

0 = TIN/LEAD

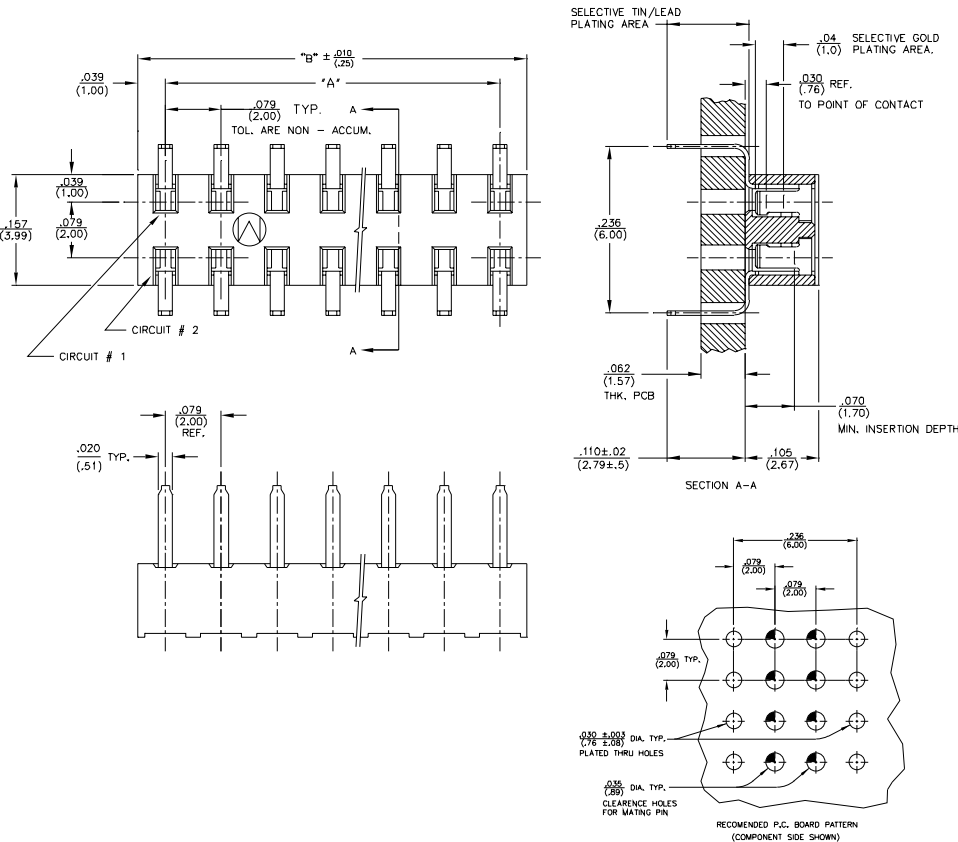
8 = .000030 SELECTIVE GOLD

F = .000015 SELECTIVE GOLD

MATING HEADERS: 8100 SERIES

NOTES :

- INSULATOR MATERIAL:
800X-4XX-302 - GLASS-FILLED, POLYESTER (PCT), UL 94V-0.
COLOR : BLACK.
- CONTACT MATERIAL : PHOSPHOR BRONZE.
- CONTACT FINISH :
80X0-4XX-302 : .0001-.0002 90/10 TIN/LEAD OVER NICKEL PLATE.
80X8-4XX-302 : .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
80XF-4XX-302 : .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
80XE-4XX-302 : (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
80XR-4XX-302 : (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
- ALL DIMENSIONS ARE IN IN./ (MM)
- CONTACT RETENTION: 1 LB. MINIMUM.



PART NUMBER	NO. OF CIRCUITS	DIM. "A"	DIM. "B"
80XX-402-302	4	.079 (2.00)	.158 (4.00)
-403-	6	.158 (4.00)	.236 (6.00)
-404-	8	.236 (6.00)	.315 (8.00)
-405-	10	.315 (8.00)	.394 (10.00)
-406-	12	.394 (10.00)	.472 (12.00)
-407-	14	.472 (12.00)	.551 (14.00)
-408-	16	.551 (14.00)	.630 (16.00)
-409-	18	.630 (16.00)	.709 (18.00)
-410-	20	.709 (18.00)	.787 (20.00)
-411-	22	.787 (20.00)	.866 (22.00)
-412-	24	.866 (22.00)	.945 (24.00)
-413-	26	.945 (24.00)	1.024 (26.00)
-414-	28	1.024 (26.00)	1.102 (28.00)
-415-	30	1.102 (28.00)	1.181 (30.00)
-416-	32	1.181 (30.00)	1.260 (32.00)
-417-	34	1.260 (32.00)	1.339 (34.00)
-418-	36	1.339 (34.00)	1.417 (36.00)
-419-	38	1.417 (36.00)	1.496 (38.00)
-420-	40	1.496 (38.00)	1.575 (40.00)
-421-	42	1.575 (40.00)	1.654 (42.00)
-422-	44	1.654 (42.00)	1.732 (44.00)
-423-	46	1.732 (44.00)	1.811 (46.00)
-424-	48	1.811 (46.00)	1.890 (48.00)
80XX-425-302	50	1.890 (48.00)	1.968 (50.00)

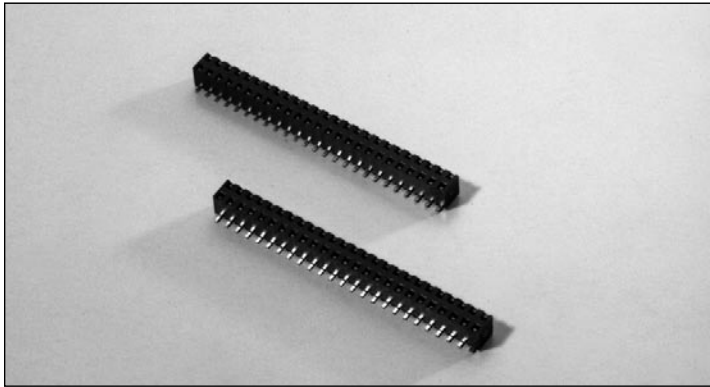


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysion Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.079" (2mm) Surface Mount Dual Row Vertical Connectors



8000 SERIES "POST/BOXE"

PART NUMBER LEGEND

800X-2XX-501

NUMBER OF POSITIONS PER ROW
2 - 25

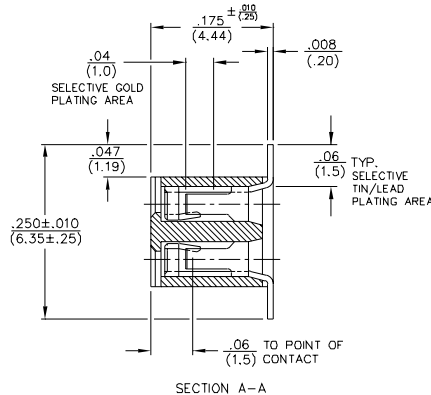
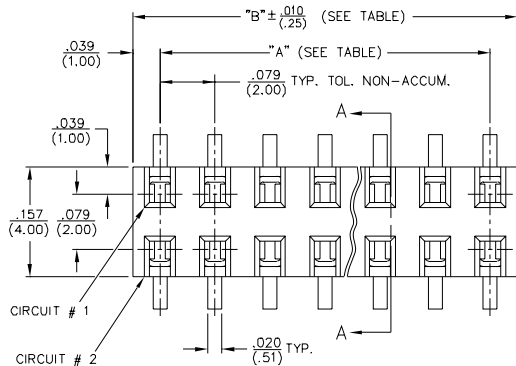
CONTACT FINISH

0 = TIN/LEAD
8 = .000030 SELECTIVE GOLD
F = .000015 SELECTIVE GOLD

MATING HEADERS: 8100 SERIES

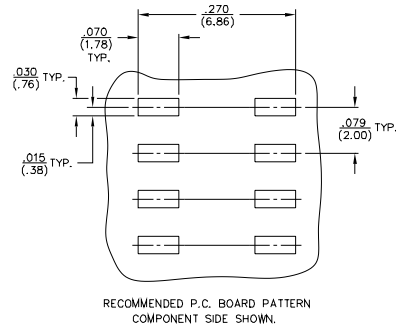
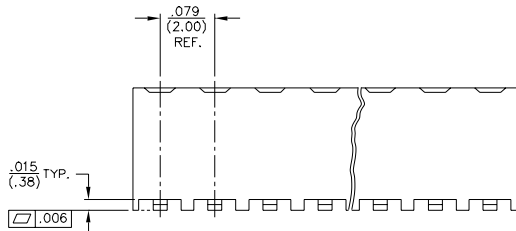
NOTES:

- INSULATOR MATERIAL: POLYESTER (PCT) UL 94V-0
COLOR: BLACK
- CONTACT MATERIAL: PHOSPHOR BRONZE
- CONTACT PLATING:
800Q-2XX-501: .0001-.0002 90/10 BRITE TIN/LEAD OVER .000050/.000150 NICKEL PLATE.
800G-2XX-501: .000030 SELECTIVE GOLD PLATING AS INDICATED OVER .000050/.000150 NICKEL PLATE ALL OVER; .0002 MIN. TIN/LEAD PLATING ON SOLDER TAIL AS INDICATED.
800E-2XX-501: .000015 SELECTIVE GOLD PLATING AS INDICATED OVER .000050/.000150 NICKEL PLATE ALL OVER; .0002 MIN. TIN/LEAD PLATING ON SOLDER TAIL AS INDICATED.
- ALL DIMENSIONS ARE IN IN./ (MM)
- CONTACT RETENTION: 1 LB. MINIMUM.



TABLE

PART NUMBER	NO. OF CIRCUITS	DIM. "A"	DIM. "B"
800X-202-501	4	.079 (2.00)	.158 (4.00)
-203-	6	.158 (4.00)	.236 (6.00)
-204-	8	.236 (6.00)	.315 (8.00)
-205-	10	.315 (8.00)	.394 (10.00)
-206-	12	.394 (10.00)	.472 (12.00)
-207-	14	.472 (12.00)	.551 (14.00)
-208-	16	.551 (14.00)	.630 (16.00)
-209-	18	.630 (16.00)	.709 (18.00)
-210-	20	.709 (18.00)	.787 (20.00)
-211-	22	.787 (20.00)	.866 (22.00)
-212-	24	.866 (22.00)	.945 (24.00)
-213-	26	.945 (24.00)	1.024 (26.00)
-214-	28	1.024 (26.00)	1.102 (28.00)
-215-	30	1.102 (28.00)	1.181 (30.00)
-216-	32	1.181 (30.00)	1.260 (32.00)
-217-	34	1.260 (32.00)	1.339 (34.00)
-218-	36	1.339 (34.00)	1.417 (36.00)
-219-	38	1.417 (36.00)	1.496 (38.00)
-220-	40	1.496 (38.00)	1.575 (40.00)
-221-	42	1.575 (40.00)	1.654 (42.00)
-222-	44	1.654 (42.00)	1.732 (44.00)
-223-	46	1.732 (44.00)	1.811 (46.00)
-224-	48	1.811 (46.00)	1.890 (48.00)
800X-225-501	50	1.890 (48.00)	1.968 (50.00)



RECOMMENDED P.C. BOARD PATTERN
COMPONENT SIDE SHOWN.

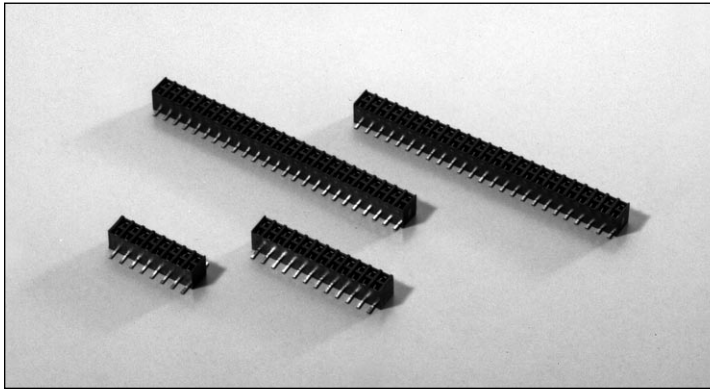


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysillon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.079" (2mm) Surface Mount Dual Row Bottom Entry Connectors



8000 SERIES "POST/BOXE"

PART NUMBER LEGEND

800X-2XX-503

NUMBER OF POSITIONS PER ROW

2 - 25

CONTACT FINISH

0 = TIN/LEAD

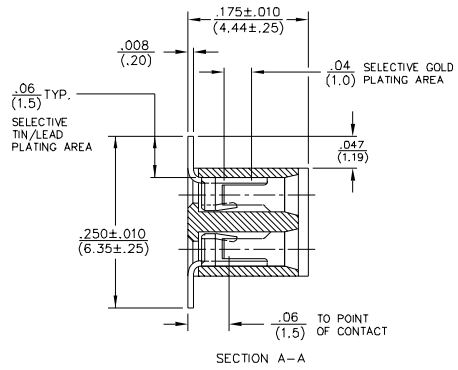
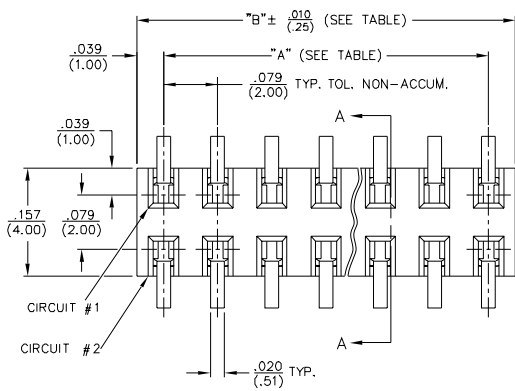
8 = .000030 SELECTIVE GOLD

F = .000015 SELECTIVE GOLD

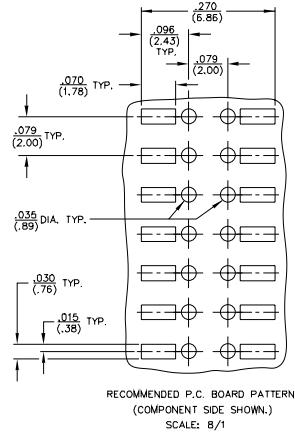
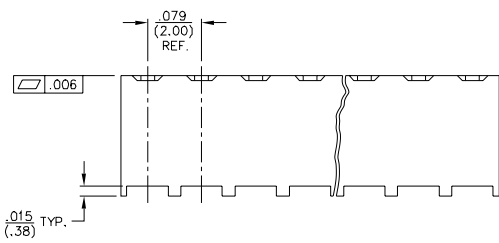
MATING HEADERS: 8100 SERIES

NOTES:

- INSULATOR MATERIAL: POLYESTER (PCT), UL 94V-0
COLOR: BLACK
- CONTACT MATERIAL: PHOSPHOR BRONZE
- CONTACT PLATING:
800Q-2XX-503: .0001-.0002 90/10 BRITE TIN/LEAD
OVER .000050/.000150 NICKEL PLATE.
800B-2XX-503: .000030 SELECTIVE GOLD PLATING AS
INDICATED OVER .000050/.000150 NICKEL
PLATE ALL OVER; .0002 MIN. TIN/LEAD
PLATING ON SOLDER TAIL AS INDICATED.
800E-2XX-503: .000015 SELECTIVE GOLD PLATING AS
INDICATED OVER .000050/.000150 NICKEL
PLATE ALL OVER; .0002 MIN. TIN/LEAD
PLATING ON SOLDER TAIL AS INDICATED.
- ALL DIMENSIONS ARE IN IN./ (MM)
- CONTACT RETENTION: 1 LB.



PART NUMBER	NO. OF CIRCUITS	DIM. "A"	DIM. "B"
800X-202-503	4	.079 (2.00)	.158 (4.00)
-203-	6	.158 (4.00)	.236 (6.00)
-204-	8	.236 (6.00)	.315 (8.00)
-205-	10	.315 (8.00)	.394 (10.00)
-206-	12	.394 (10.00)	.472 (12.00)
-207-	14	.472 (12.00)	.551 (14.00)
-208-	16	.551 (14.00)	.630 (16.00)
-209-	18	.630 (16.00)	.709 (18.00)
-210-	20	.709 (18.00)	.787 (20.00)
-211-	22	.787 (20.00)	.866 (22.00)
-212-	24	.866 (22.00)	.945 (24.00)
-213-	26	.945 (24.00)	1.024 (26.00)
-214-	28	1.024 (26.00)	1.102 (28.00)
-215-	30	1.102 (28.00)	1.181 (30.00)
-216-	32	1.181 (30.00)	1.260 (32.00)
-217-	34	1.260 (32.00)	1.339 (34.00)
-218-	36	1.339 (34.00)	1.417 (36.00)
-219-	38	1.417 (36.00)	1.496 (38.00)
-220-	40	1.496 (38.00)	1.575 (40.00)
-221-	42	1.575 (40.00)	1.654 (42.00)
-222-	44	1.654 (42.00)	1.732 (44.00)
-223-	46	1.732 (44.00)	1.811 (46.00)
-224-	48	1.811 (46.00)	1.890 (48.00)
800X-225-503	50	1.890 (48.00)	1.968 (50.00)

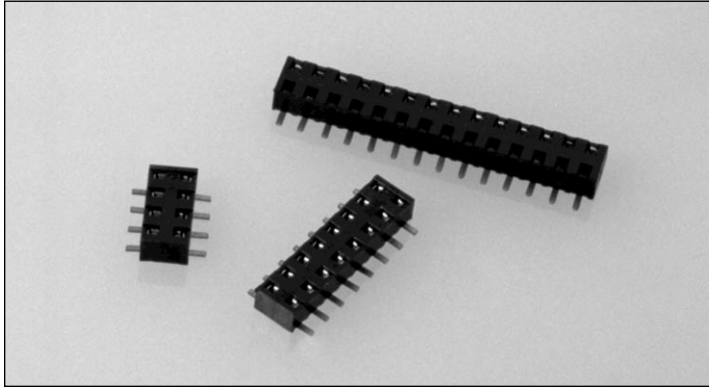


North and South America:
Methode Electronics, Inc. Connector Products
1700 Hicks Road • Rolling Meadows, IL 60008 USA
847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
Unit H, Crossagalla Business Park, Ballysion Rd. • Limerick, Ireland
+353 (0) 61 401222 • Fax: +353 (0) 61 401942
Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
1 Tuas Lane, Jurong Town • Singapore 638610
65-68615444 • Fax: 65-68614777
Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.079" (2mm) Low Profile Surface Mount Dual Row Vertical Connectors



8000 SERIES "POST/BOXE"

PART NUMBER LEGEND

800X-4XX-50X

SOLDER TAIL LENGTH (DIM C)

1 = WITHOUT LOCATING PEGS

2 = WITH LOCATING PEGS

NUMBER OF POSITIONS PER ROW

2 - 25

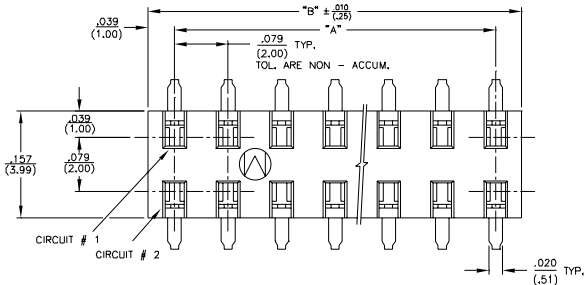
CONTACT FINISH

0 = TIN/LEAD

8 = .000030 SELECTIVE GOLD

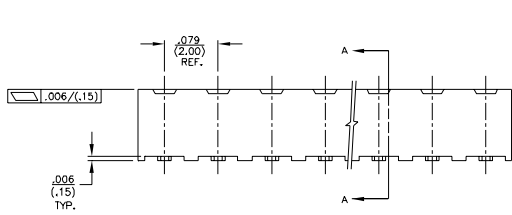
F = .000015 SELECTIVE GOLD

MATING HEADERS: 8100 SERIES

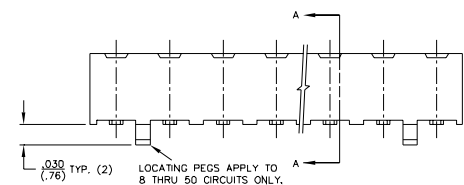


NOTES :

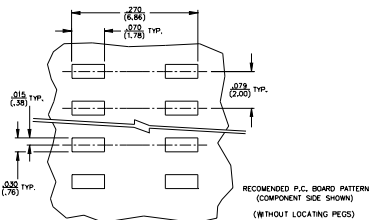
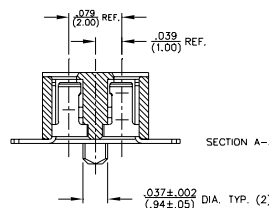
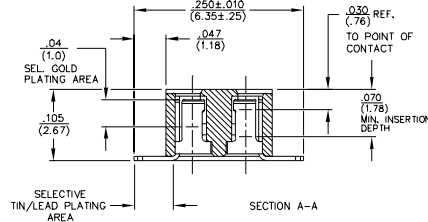
- INSULATOR MATERIAL:
800X-4XX-50X - CLASS-FILLED, POLYESTER (PCT), UL 94V-0.
COLOR : BLACK
- CONTACT MATERIAL : PHOSPHOR BRONZE.
- CONTACT FINISH :
800X-4XX-50X : .0001-.0002 90/10 TIN/LEAD OVER NICKEL PLATE.
80X8-4XX-50X : .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
80XF-4XX-50X : .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
80XP-4XX-50X : (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
80XB-4XX-50X : (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
- ALL DIMENSIONS ARE IN IN./MM



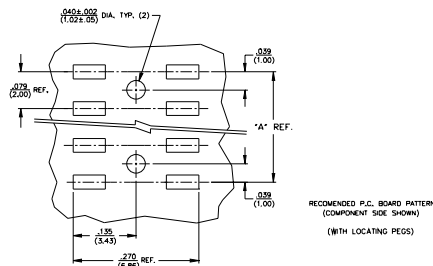
PART NO. 800X-4XX-501
(WITHOUT LOCATING PEGS)



PART NO. 80XX-404-502 THRU 80XX-425-502
(WITH LOCATING PEGS)



RECOMMENDED P.C. BOARD PATTERN
(COMPONENT SIDE SHOWN)
(WITHOUT LOCATING PEGS)



RECOMMENDED P.C. BOARD PATTERN
(COMPONENT SIDE SHOWN)
(WITH LOCATING PEGS)

PART NUMBER	NO. OF CIRCUITS	DIM. "A"	DIM. "B"
800X-402-50X	4	.079 (2.00)	.158 (4.00)
↑ -403- ↑	6	.158 (4.00)	.236 (6.00)
-404-	8	.236 (6.00)	.315 (8.00)
-405-	10	.315 (8.00)	.394 (10.00)
-406-	12	.394 (10.00)	.472 (12.00)
-407-	14	.472 (12.00)	.551 (14.00)
-408-	16	.551 (14.00)	.630 (16.00)
-409-	18	.630 (16.00)	.709 (18.00)
-410-	20	.709 (18.00)	.787 (20.00)
-411-	22	.787 (20.00)	.866 (22.00)
-412-	24	.866 (22.00)	.945 (24.00)
-413-	26	.945 (24.00)	1.024 (26.00)
-414-	28	1.024 (26.00)	1.102 (28.00)
-415-	30	1.102 (28.00)	1.181 (30.00)
-416-	32	1.181 (30.00)	1.260 (32.00)
-417-	34	1.260 (32.00)	1.339 (34.00)
-418-	36	1.339 (34.00)	1.417 (36.00)
-419-	38	1.417 (36.00)	1.496 (38.00)
-420-	40	1.496 (38.00)	1.575 (40.00)
-421-	42	1.575 (40.00)	1.654 (42.00)
-422-	44	1.654 (42.00)	1.732 (44.00)
-423-	46	1.732 (44.00)	1.811 (46.00)
↑ -424- ↓	48	1.811 (46.00)	1.890 (48.00)
80XX-425-50X	50	1.890 (48.00)	1.968 (50.00)

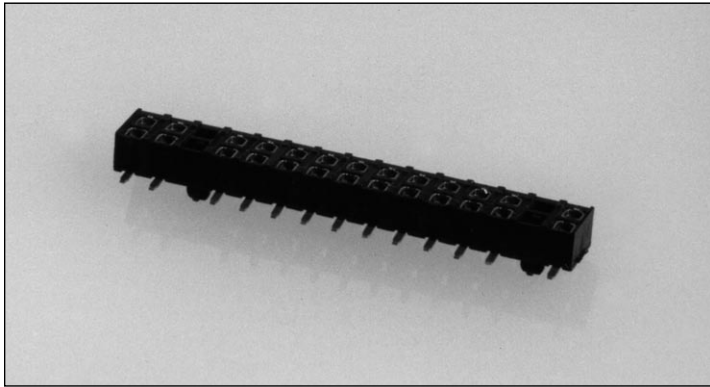


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.079" (2mm) Low Profile Surface Mount Dual Row Bottom Entry Connectors



8000 SERIES "POST/BOXE"

PART NUMBER LEGEND

800X-4XX-50X

SOLDER TAIL LENGTH (DIM C)

3 = WITHOUT LOCATING PEGS

4 = WITH LOCATING PEGS

NUMBER OF POSITIONS PER ROW

2 - 25

CONTACT FINISH

0 = TIN/LEAD

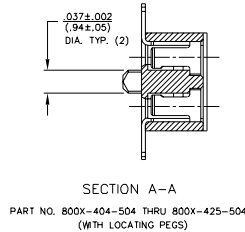
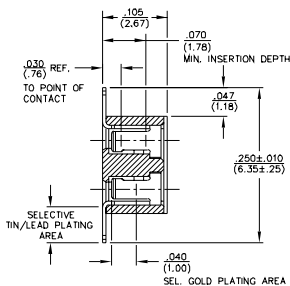
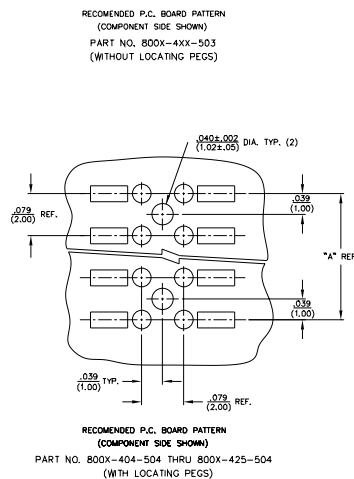
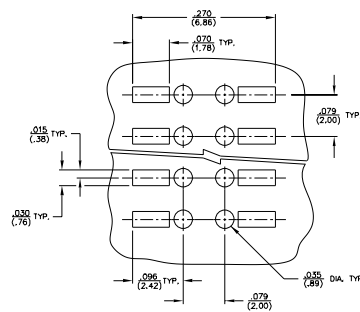
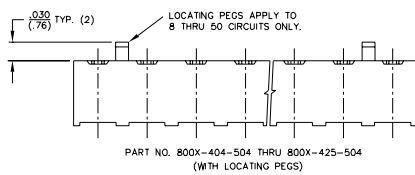
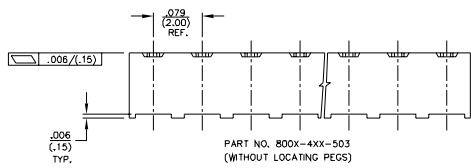
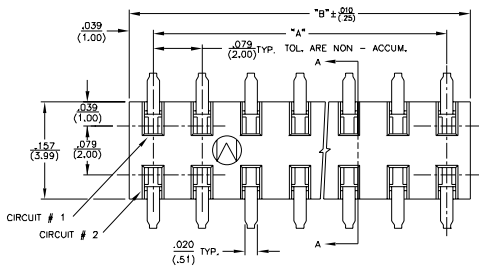
8 = .000030 SELECTIVE GOLD

F = .000015 SELECTIVE GOLD

MATING HEADERS: 8100 SERIES

NOTES -

- INSULATOR MATERIAL :
800X-4XX-50X - GLASS-FILLED, POLYESTER (PCT), UL 94V-0
COLOR : BLACK
- CONTACT MATERIAL : PHOSPHOR BRONZE.
- CONTACT FINISH :
8000-4XX-50X : .0001-.0002 90/10 TIN/LEAD OVER NICKEL PLATE.
8008-4XX-50X : .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
800F-4XX-50X : .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
800P-4XX-50X : (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
800R-4XX-50X : (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING IN CONTACT AREA; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
- ALL DIMENSIONS ARE IN IN./MM



PART NUMBER	NO. OF CIRCUITS	DIM. "A"	DIM. "B"
80XX-402-50X	4	.079 (2.00)	.158 (4.00)
-403-	6	.158 (4.00)	.236 (6.00)
-404-	8	.236 (6.00)	.315 (8.00)
-405-	10	.315 (8.00)	.394 (10.00)
-406-	12	.394 (10.00)	.472 (12.00)
-407-	14	.472 (12.00)	.551 (14.00)
-408-	16	.551 (14.00)	.630 (16.00)
-409-	18	.630 (16.00)	.709 (18.00)
-410-	20	.709 (18.00)	.787 (20.00)
-411-	22	.787 (20.00)	.866 (22.00)
-412-	24	.866 (22.00)	.945 (24.00)
-413-	26	.945 (24.00)	1.024 (26.00)
-414-	28	1.024 (26.00)	1.102 (28.00)
-415-	30	1.102 (28.00)	1.181 (30.00)
-416-	32	1.181 (30.00)	1.260 (32.00)
-417-	34	1.260 (32.00)	1.339 (34.00)
-418-	36	1.339 (34.00)	1.417 (36.00)
-419-	38	1.417 (36.00)	1.496 (38.00)
-420-	40	1.496 (38.00)	1.575 (40.00)
-421-	42	1.575 (40.00)	1.654 (42.00)
-422-	44	1.654 (42.00)	1.732 (44.00)
-423-	46	1.732 (44.00)	1.811 (46.00)
-424-	48	1.811 (46.00)	1.890 (48.00)
80XX-425-50X	50	1.890 (48.00)	1.968 (50.00)



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

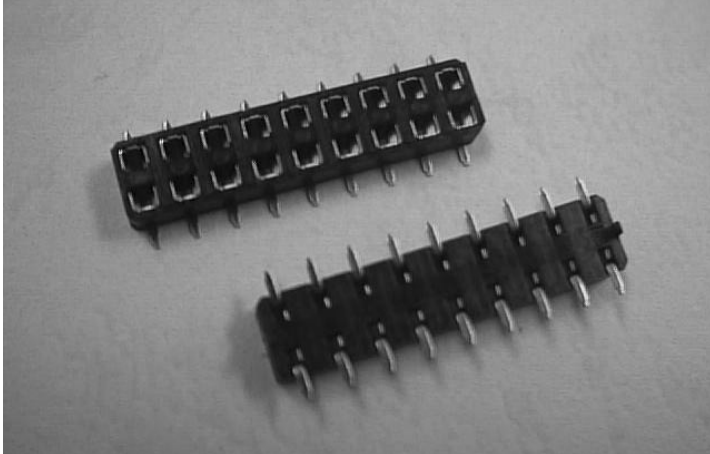
Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.079" (2mm) Dual Row Surface Mount Receptacles



8000 SERIES "SMT Receptacle"

PART NUMBER LEGEND

800M-809-503

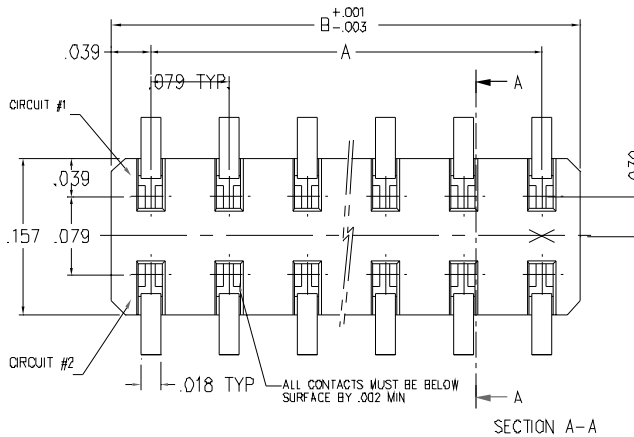
3 = WITHOUT LOCATING PEGS

NUMBER OF POSITION
e.g. 9 positions = 18 contacts

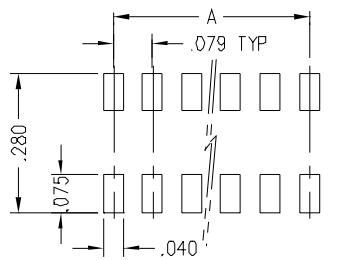
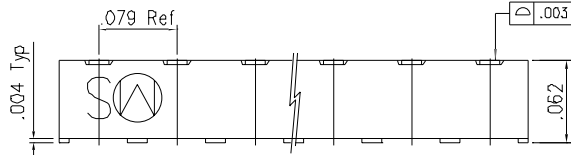
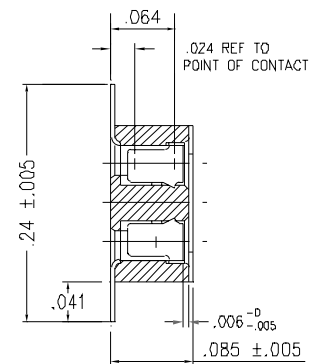
PLATING CODE
M = .000015" gold plate

NOTES

- 1) MATERIAL :
INSULATOR : POLYCYCLOHEXYLENE , (PCT)
30% GLASS FILLED, BLACK, UL94V-0.
PINS : PHOSPHOR BRONZE
- 2) PIN FINISH :
M : 0.000015" min, Gold plate over 0.000050" min, Nickel plate.



MIN INSERTION DEPTH



PART NUMBER	NO. OF CIRCUITS	DIM. "A"	DIM. "B"
800X-802-50X	4	.079	.158
800X-803-50X	6	.158	.236
800X-804-50X	8	.236	.315
800X-805-50X	10	.315	.394
800X-806-50X	12	.394	.472
800X-807-50X	14	.472	.551
800X-808-50X	16	.551	.630
800X-809-50X	18	.630	.709
800X-810-50X	20	.709	.787
800X-811-50X	22	.787	.866
800X-812-50X	24	.866	.945
800X-813-50X	26	.945	1.024
800X-814-50X	28	1.024	1.102
800X-815-50X	30	1.102	1.181



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA
847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
+353 (0) 61 401222 • Fax: +353 (0) 61 401942
Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610
65-68615444 • Fax: 65-68614777
Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html



Specifications

“POST/BOXE”, Double Point Contact 8000 Series Receptacles/Headers (.079” / 2mm Centers)

Specifications

Current Rating: 1 Amps

Voltage Rating: 200 VAC

Contact Resistance: 20 mΩ max.

Operating Temperature: -55°C to + 125°C

Insertion Force: 10 oz. (287 grams) max.

Withdrawal Force: 2 oz. (57.1 grams) min.

Contact Material: Phosphor Bronze

Contact Finish: .0002 Tin plate or .000030 gold plate in contact area over nickel plate*

*Additional platings available

Insulator Material: High temperature thermo plastic
UL 94V-0

Pin Push Out Force: 1.75 lbs. (0.80 K grams) min. (8100 Series - headers only)

Agency Approvals:

UL Component Recognition File E-48567



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA
847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

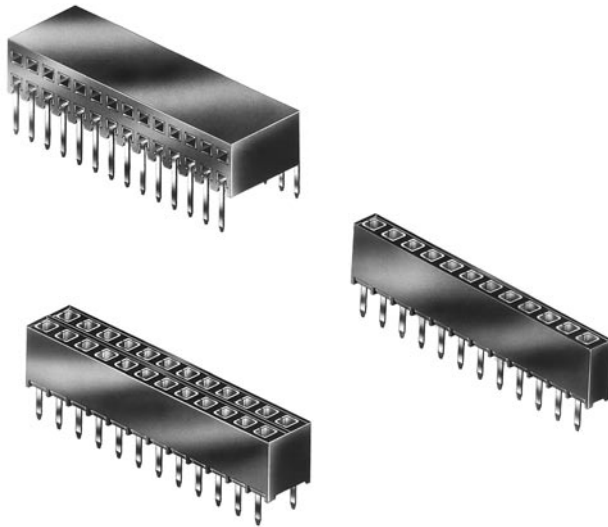
Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
+353 (0) 61 401222 • Fax: +353 (0) 61 401942
Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610
65-68615444 • Fax: 65-68614777
Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

2.00mm Receptacle Strips .079" (2.00) Centerline



PART NUMBER LEGEND

M64X-RXXX-XX-XX

TAIL STYLE

- 01 = Through board
- 02 = SMT

HOUSING STYLE

- 01 = Standard, vertical
- 10 = Parallel mount (right angle)
- 11 = Right angle
- 12 = Vertical with pegs

NUMBER OF POSITIONS

- 1 through 40 (single row)
- 2 through 80 (dual row)
- 8 through 120 (four rows)

NUMBER OF ROWS

- 1 = Single row
- 2 = Dual row
- 4 = Four row

PLATING

- S = 5 µin Gold nominal overall
- T = Selective gold flash
- 0 = Tin

SPECIFICATIONS:

Material:

Insulator: Polybutylene Terephthalate (PBT), glass reinforced thermoplastic, rated UL 94V-0

Contacts: Phosphor Bronze

Electrical:

Operation voltage: 250 VAC max

Current rating: 3 Amps max

Contact resistance: 20 mΩ max

Insulation resistance: 1000 MΩ min @ 650 VDC between adjacent contacts (75°F and 50% R.H.)

Dielectric withstanding voltage: 650 VDC min RMS (sea level)

Mechanical:

Insertion force: 5 ozs. max per contact

Withdrawal force: 2.8 ozs. min per contact

Environmental:

Operating temperature: -65°C to + 125°C

MATING OPTIONS:

Headers: M64X-HXXX-XX-XX

PACKAGING:

Anti-static plastic trays available

APPROVALS AND CERTIFICATIONS:

Select parts recognized under the component program of Underwriters Laboratories, Inc. No. E167232

Certified by Canadian Standards Association No. LR75112



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

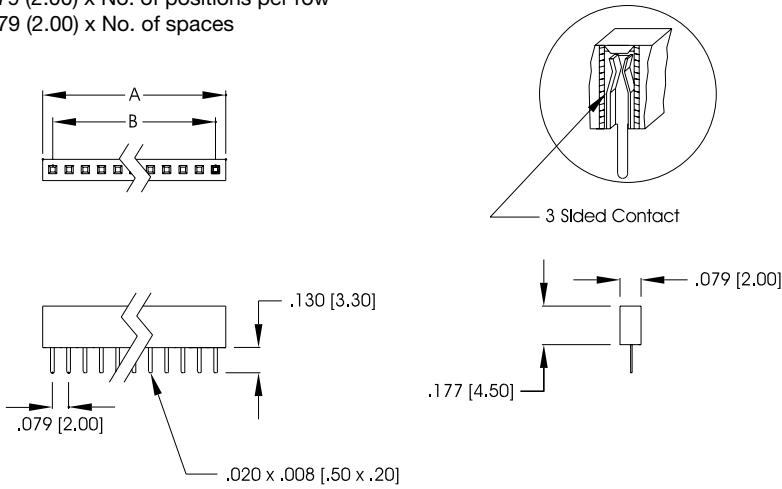
Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

2.00mm Receptacle Strips

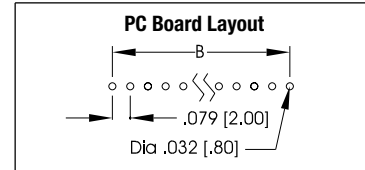
.079" (2.00) Centerline - M64 Series



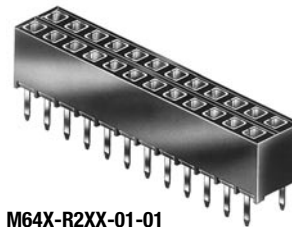
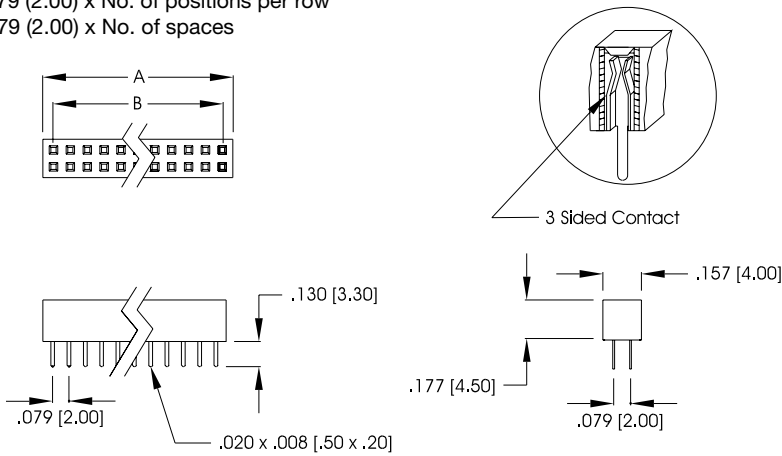
A = .079 (2.00) x No. of positions per row
 B = .079 (2.00) x No. of spaces



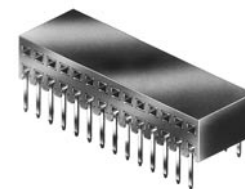
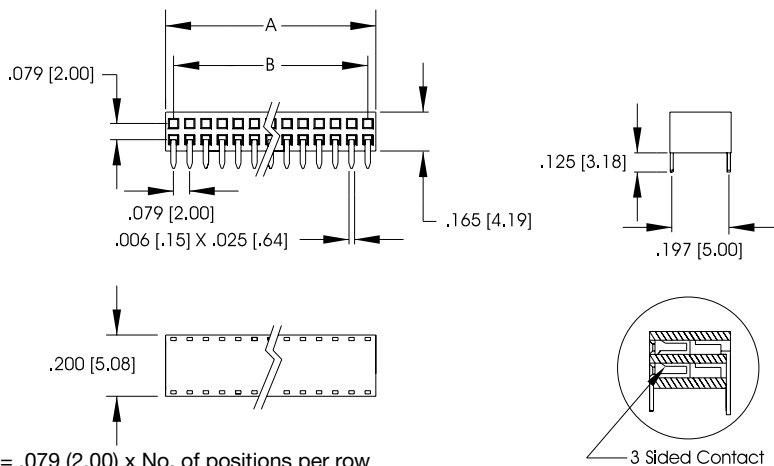
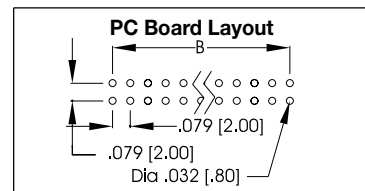
M64X-R1XX-01-01



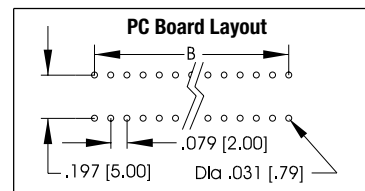
A = .079 (2.00) x No. of positions per row
 B = .079 (2.00) x No. of spaces



M64X-R2XX-01-01



M64X-R2XX-10-01



A = .079 (2.00) x No. of positions per row
 B = .079 (2.00) x No. of spaces

2.00mm Receptacle Strips

.079" (2.00) Centerline - M64 Series



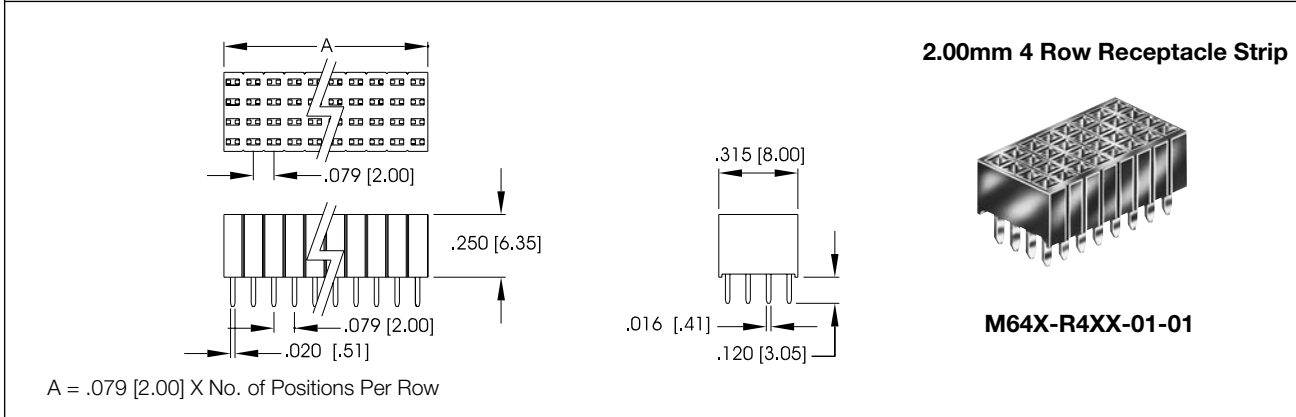
<p>A = .079 [2.00] X No. of Positions Per Row B = .079 [2.00] X No. of Spaces</p>	<p>M64X-R1XX-10-01</p> <p>PC Board Layout</p>
<p>A = .079 [2.00] X No. of Positions Per Row B = .079 [2.00] X No. of Spaces</p>	<p>M64X-R2XX-11-01</p> <p>PC Board Layout</p>
<p>Initial point of contact .050 (1.27)</p> <p>A = .079 [2.00] X No. of Positions Per Row B = .079 [2.00] X No. of Spaces</p> <p>3 Sided Contact</p>	<p>M64X-R1XX-01-02 or M64X-R1XX-12-02 (w/pegs)</p> <p>PC Board Layout</p>
<p>Initial point of contact .050 (1.27)</p> <p>A = .079 [2.00] X No. of Positions Per Row B = .079 [2.00] X No. of Spaces</p> <p>3 Sided Contact</p>	<p>M64X-R2XX-01-02 or M64X-R2XX-12-02 (w/pegs)</p> <p>PC Board Layout</p>



2.00mm Headers .079" (2.00) Centerline - M64 Series



BOX HEADERS/4 ROW HEADER SET

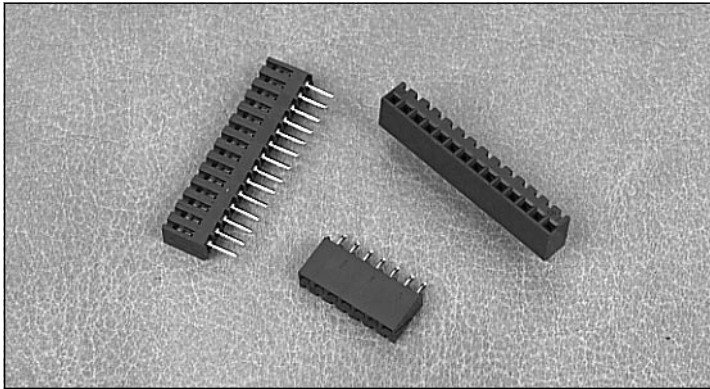


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.100" (2.54mm) Through Hole Vertical Mount Connector



1000 SERIES "TERMACON"

PART NUMBER LEGEND

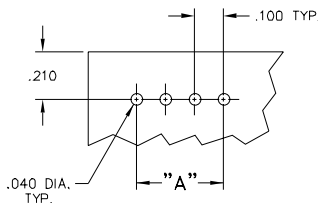
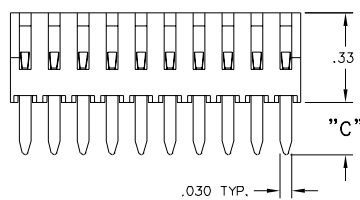
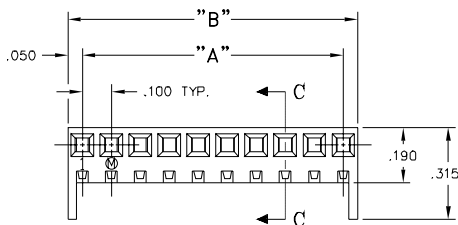
100X-XXX-2X0X-PXXX

- 008 = TRAY PACKAGING REQUIRED
- 100 = BLACK STRIPE REQUIRED
- CONTACT TAIL LENGTH. (SEE TABLE II)
- CONTACT MATERIAL (SEE NOTE 2)
- NUMBER OF POSITIONS (SEE TABLE 1)
- INSULATOR STYLE:
0 = WITHOUT HOOKS
1 = WITH HOOKS
- CONTACT PLATING (SEE NOTE 3)

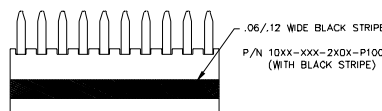
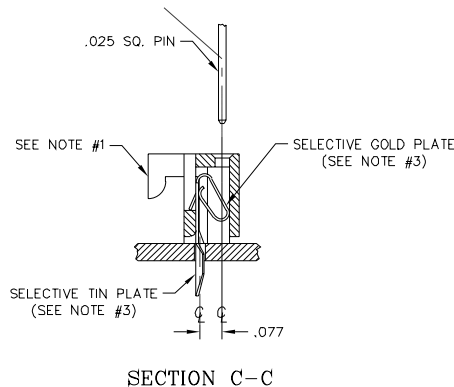
MATING HEADERS: 1100 SERIES

NOTES:

- 1) PART CAN BE SUPPLIED WITH HOOKS: P/N 100X-1XX-2X0X;
AND/OR WITHOUT HOOKS: P/N 100X-0XX-2X0X.
- 2) INSULATOR MATERIAL: NYLON 6/6, U.L. 94V-0; RED
CONTACT MATERIAL: 100X-XXX-200X: PHOSPHOR BRONZE, ALLOY 510;
100X-XXX-210X: BRASS, ALLOY 260.
- 3) CONTACT FINISH: 1000-XXX-2X0X: BRITE TIN PLATE (.0001/.0002) OVER
COPPER UNDERPLATE (.0001 MIN.);
1002-XXX-2X0X: GOLD PLATE (.000015) OVER
NICKEL UNDERPLATE (.000050);
1008-XXX-2X0X: SELECT GOLD PLATE (.000020 MIN.)
AND SELECT TIN PLATE (.0002) WITH
NICKEL UNDERPLATE (.000050) OVERALL;
100E-XXX-2X0X: 90/10 TIN/LEAD (.000150 MIN.) OVER
NICKEL UNDERPLATE (.000050/.000150);
100E-XXX-2X0X: SELECT GOLD PLATE (.000030 MIN.)
AND SELECT TIN PLATE (.0002) WITH
NICKEL UNDERPLATE (.000050) OVERALL.



RECOMMENDED P.C. BOARD LAYOUT



PART No.	DIM. "C"
100X-XXX-2X02	.180 ⁺⁰²⁰ _{-.010}
100X-XXX-2X01	.120 ⁺⁰²⁰ _{-.010}

PART No.	No. OF POS.	DIM "A"	DIM "B"
100X-X02-2X0X	2	.100±.010	.200±.015
X03	3	.200	.300
X04	4	.300	.400
X05	5	.400	.500
X06	6	.500	.600
X07	7	.600	.700
X08	8	.700	.800
X09	9	.800	.900
X10	10	.900	1.000
X11	11	1.000	1.100
X12	12	1.100	1.200
X13	13	1.200	1.300
X14	14	1.300	1.400
X15	15	1.400	1.500
X16	16	1.500	1.600
X17	17	1.600	1.700
X18	18	1.700	1.800
X19	19	1.800	1.900
X20	20	1.900	2.000
X21	21	2.000	2.100
X22	22	2.100	2.200
X23	23	2.200	2.300
X24	24	2.300	2.400
X25	25	2.400	2.500
X26	26	2.500	2.600
X27	27	2.600	2.700
100X-X28-2X0X	28	2.700±.010	2.800±.015

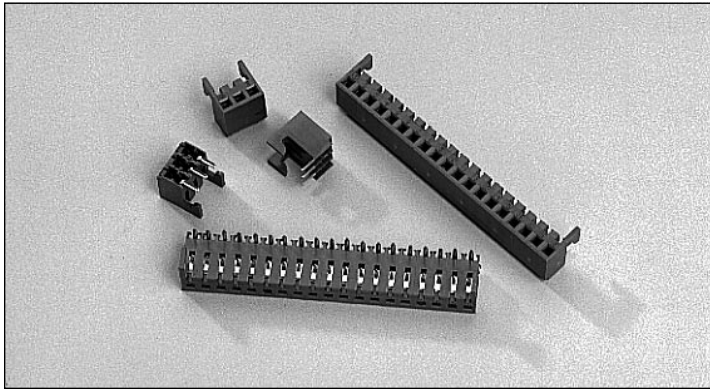


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

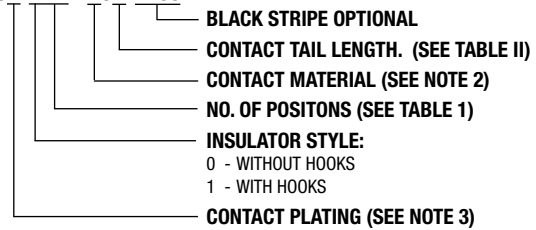
.100" (2.54mm) Through Hole Right Angle Connector



1000 SERIES "TERMACON"

PART NUMBER LEGEND

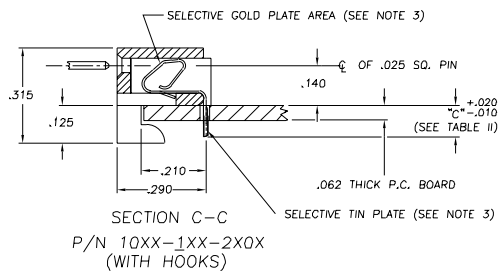
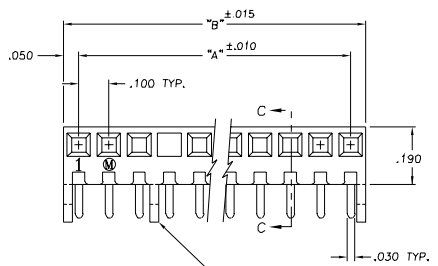
100X-XXX-2X0X-P100



MATING HEADERS: 1100 SERIES

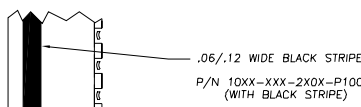
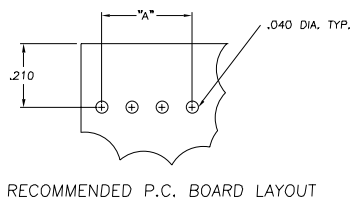
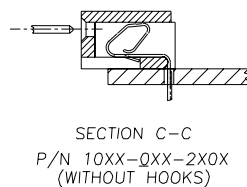
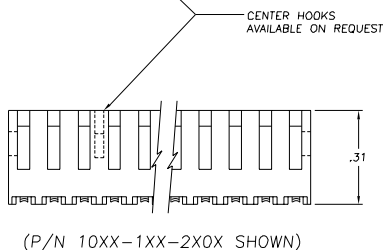
NOTES:

- INSULATOR MATERIAL:
10Q0-XXX-2X0X: NYLON 6/6, UL 94V-0, (PAM-011)
COLOR: NATURAL (RED)
- CONTACT MATERIAL:
10XX-XXX-2Q0X: PHOSPHOR BRONZE, CDA ALLOY 510
10XX-XXX-210X: BRASS CDA ALLOY 260
- CONTACT FINISH:
10XQ-XXX-2X0X: .0001-.0002 BRITE TIN PLATE OVER .0001 MIN. COPPER PLATE.
10X2-XXX-2X0X: .000015 GOLD PLATE OVER .000050 NICKEL PLATE.
10XB-XXX-2X0X: .000020 MIN. SELECTIVE GOLD PLATE OVER .000050 NICKEL PLATE ALL OVER; .0002 SELECTIVE TIN PLATE AS INDICATED.
10XE-XXX-2X0X: .000150 MIN. 90/10 TIN/LEAD OVER .000050/.000150 NICKEL PLATE.
10XE-XXX-2X0X: .000030 SEL. GOLD PLATE OVER .000050 NICKEL PLATE ALL OVER; .0002 SELECTIVE TIN PLATE AS INDICATED.



PART No.	DIM "C"
10XX-XXX-2X03	.12
10XX-XXX-2X04	.18

PART No.	No. OF POS.	DIM "A"	DIM "B"
10XX-X02-2X0X	2	.100	.200
-X03	3	.200	.300
-X04	4	.300	.400
-X05	5	.400	.500
-X06	6	.500	.600
-X07	7	.600	.700
-X08	8	.700	.800
-X09	9	.800	.900
-X10	10	.900	1.000
-X11	11	1.000	1.100
-X12	12	1.100	1.200
-X13	13	1.200	1.300
-X14	14	1.300	1.400
-X15	15	1.400	1.500
-X16	16	1.500	1.600
-X17	17	1.600	1.700
-X18	18	1.700	1.800
-X19	19	1.800	1.900
-X20	20	1.900	2.000
-X21	21	2.000	2.100
-X22	22	2.100	2.200
-X23	23	2.200	2.300
-X24	24	2.300	2.400
-X25	25	2.400	2.500
-X26	26	2.500	2.600
-X27	27	2.600	2.700
10XX-X28-2X0X	28	2.700	2.800

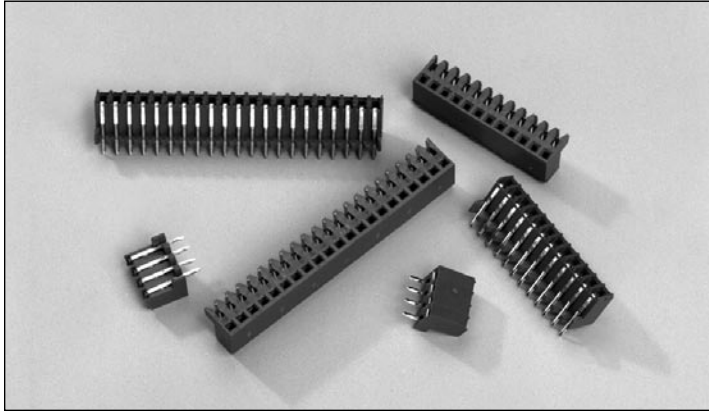


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysion Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.100" (2.54mm) Through Hole Bottom Entry Connector



1000 SERIES "TERMACON"

PART NUMBER LEGEND

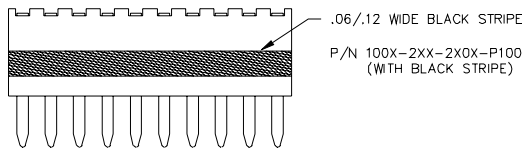
100X-2XX-2X0X-P100



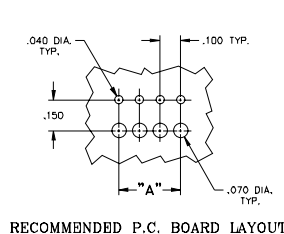
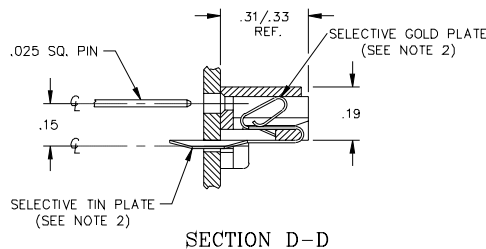
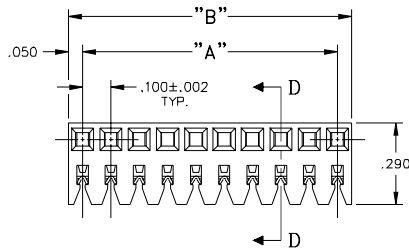
MATING HEADERS: 1100 SERIES

NOTES:

- 1) INSULATOR MATERIAL: 1000-2XX - NYLON 6/6, U.L. 94V-0; COLOR: RED (PAM-011)
CONTACT MATERIAL: 1000-2XX-200X: PHOSPHOR BRONZE, CDA ALLOY 510;
1000-2XX-210X: BRASS, CDA ALLOY 260.
- 2) CONTACT FINISH: 1000-2XX-2X0X: BRUTE TIN PLATE (.0001/.0002) OVER COPPER UNDERPLATE (.0001 MIN.);
1002-2XX-2X0X: GOLD PLATE (.000015) OVER NICKEL UNDERPLATE (.000050);
1008-2XX-2X0X: SELECT GOLD PLATE (.000020 MIN.) AND SELECT TIN PLATE (.0002) WITH NICKEL UNDERPLATE (.000050) OVERALL;
100E-2XX-2X0X: 90/10 TIN/LEAD (.000150 MIN.) OVER NICKEL UNDERPLATE (.000050/.000150);
100F-2XX-2X0X: SELECT GOLD PLATE (.000030 MIN.) AND SELECT TIN PLATE (.0002) WITH NICKEL UNDERPLATE (.000050) OVERALL.



PART No.	DIM. "C"
10XX-2XX-2X05	.120 ^{+0.030} _{-.010}
10XX-2XX-2X06	.180 ^{+0.030} _{-.010}



PART No.	No. OF POS.	DIM "A"	DIM "B"
10XX-202-2X0X	2	.100±.010	.200±.015
203	3	.200	.300
204	4	.300	.400
205	5	.400	.500
206	6	.500	.600
207	7	.600	.700
208	8	.700	.800
209	9	.800	.900
210	10	.900	1.000
211	11	1.000	1.100
212	12	1.100	1.200
213	13	1.200	1.300
214	14	1.300	1.400
215	15	1.400	1.500
216	16	1.500	1.600
217	17	1.600	1.700
218	18	1.700	1.800
219	19	1.800	1.900
220	20	1.900	2.000
221	21	2.000	2.100
222	22	2.100	2.200
223	23	2.200	2.300
224	24	2.300	2.400
225	25	2.400	2.500
226	26	2.500	2.600
227	27	2.600	2.700
10XX-228-2X0X	28	2.700±.010	2.800±.015



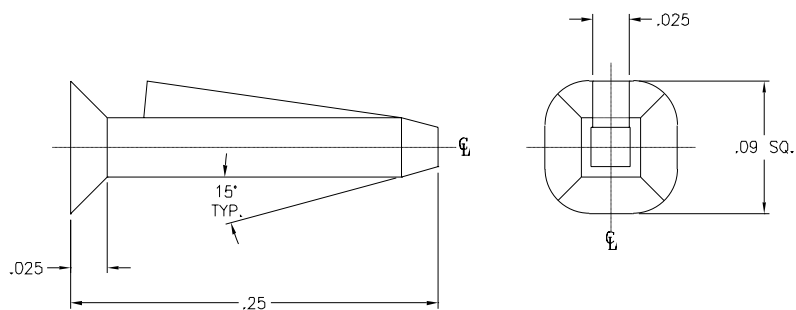
North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html



1310A Polarizing Key



Material: Nylon

Color: Red

Mating Parts:

1. All 1300-XXX-4XX IDC Receptacles
2. 1300-017 through 1300-028 Crimp Receptacles
3. All 1300 Series Board Receptacles



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA
847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
+353 (0) 61 401222 • Fax: +353 (0) 61 401942
Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610
65-68615444 • Fax: 65-68614777
Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html



Specifications

“TERMACON”. Single Point Contact Connectors 1000, 1300, 1500 Series Receptacles/Headers and Card Edge Connectors (.100” Centers)

Mechanical

1000 Series

.100” (2.54mm)

Insulator Housing: Nylon 94V-0 rated

Contact Material: Copper alloy tin plated

Insertion Force: Initial force to mate with .025 sq. pin - 8
ozs. max per circuit

Withdrawal Force: 2 oz. min. per circuit

Pin Push Out (Headers): 2 lbs. min.

Electrical

High Voltage Dielectric: 1500 V RMS for 60 seconds
between adjacent terminals

Rated Voltage: 250 VAC

Current: .100" centers, 3.5 max.

Temperature Rise: 30°C at rated current

Terminal Resistance: measured across a mated terminal
pair .100 centers, 10 mV at 1 amp

Ambient Temperature: -40°C to +105°C

Insulation Resistance: 500K MΩ min. between adjacent
contacts at 75°F and 50% RH

Humidity (MIL-STD-202E): after MIL-202E test has been
performed on mated terminal parts, maximum mV drop
should be two times the original mV reading prior to test
or .100 center, 25 mV at amp;

Notes

Underwriters Laboratories Component Recognition File
E-48567

Canadian Standards File 52212



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

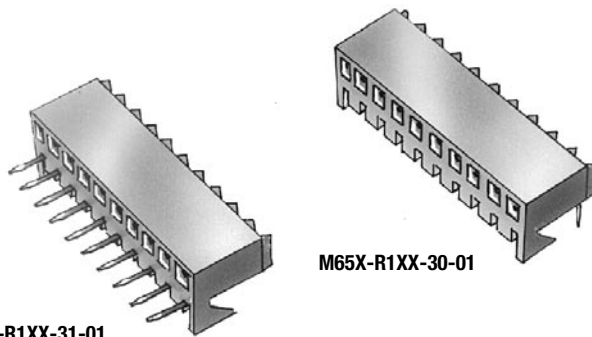
Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

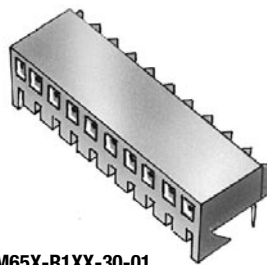
65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

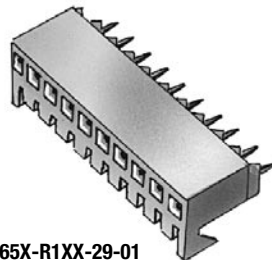
PCB Receptacle with Board Hooks .100" (2.54) Centerline - M65 Series



M65X-R1XX-31-01



M65X-R1XX-30-01



M65X-R1XX-29-01

PART NUMBER LEGEND M65X-R1XX-XX-01

HOUSING/CONTACT TYPE

- 29 = Vertical, through hole
- 30 = Right angle, through hole
- 31 = Bottom entry, through hole

POSITIONS

02 through 20

PLATING

E = Tin/Lead

SPECIFICATIONS:

Material:

Insulator: Nylon 6/6 rated UL 94V-0

Insulator color: Natural

Contacts: Phosphor Bronze

Plating:

100 μ m bright tin lead plate to MIL-P-81728, Type 1 over 50 μ m copper underplate to MIL-C-14550

Electrical:

Operation voltage: 250 VAC max

Current rating: 3 Amps max

Contact resistance: 20 m Ω max

Insulation resistance: 1000 M Ω min @ 1500 VDC between adjacent contacts (75°F at 50% R.H.)

Dielectric withstanding voltage: 1500 VAC min RMS (sea level)

Mechanical:

Insertion force: 6 oz. max with .025" sq. pin

Withdrawal force: 3 oz. min with .025" sq. pin

Terminal retention to housing: 8 lbs. min

Environmental:

Operating temperature: -65°C to +125°C

MATING OPTIONS:

Headers: M65X-H1XX-XX-XX

PACKAGING:

Anti-static plastic trays available



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

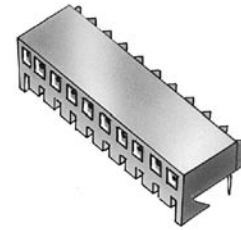
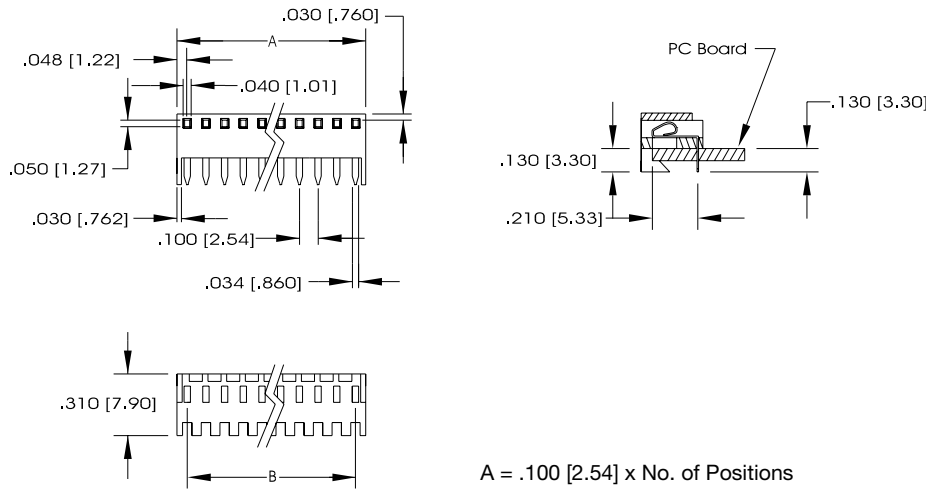
65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

PCB Receptacle with Board Hooks .100" (2.54) Centerline - M65 Series



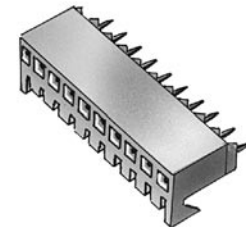
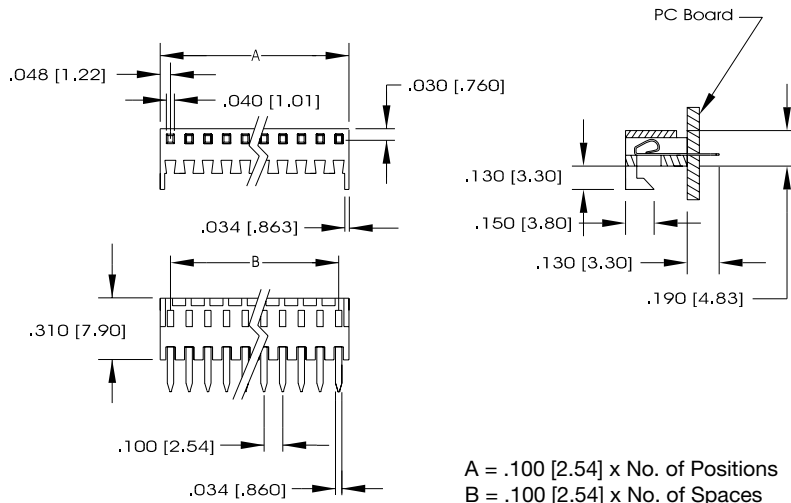
M65X-R1XX-30-01



Right Angle Through Hole

A = .100 [2.54] x No. of Positions
B = .100 [2.54] x No. of Spaces

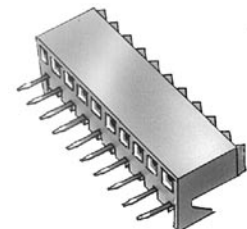
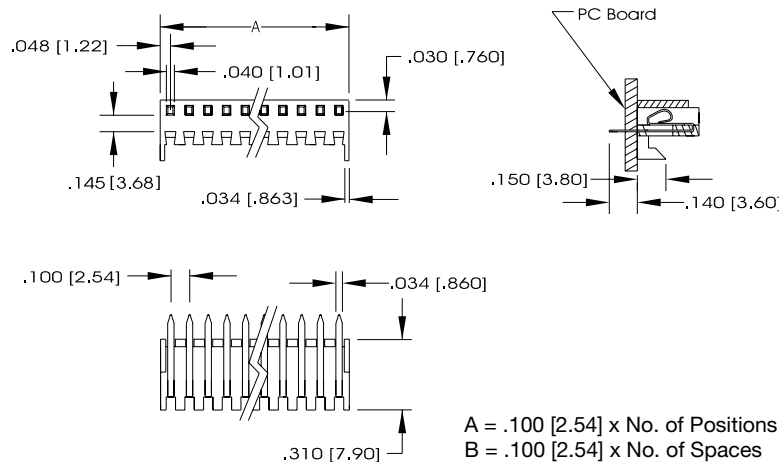
M65X-R1XX-29-01



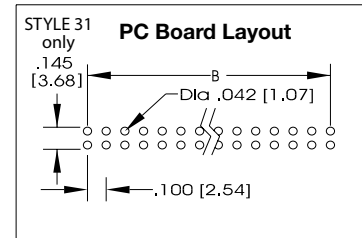
Vertical Through Hole

A = .100 [2.54] x No. of Positions
B = .100 [2.54] x No. of Spaces

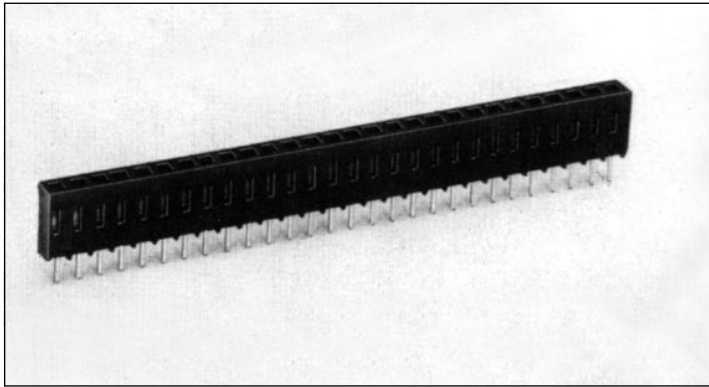
M65X-R1XX-31-01



Bottom Entry Through Hole



.100" (2.54mm) Single Row Through Hole Vertical Connector



9000 SERIES "POST/BOXE"

PART NUMBER LEGEND

900X-1XX-30X

TAIL CONFIGURATION

- 1 = STRAIGHT TAILS
- 3 = OFFSET TAILS

NUMBER OF POSITIONS PER ROW

- 2 - 65

CONTACT FINISH

- 0 = TIN
- 8 = .000030 SELECTIVE GOLD
- F = .000015 SELECTIVE GOLD

MATING HEADERS: 9100 SERIES

NOTES:

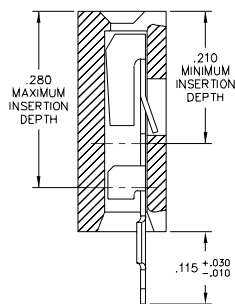
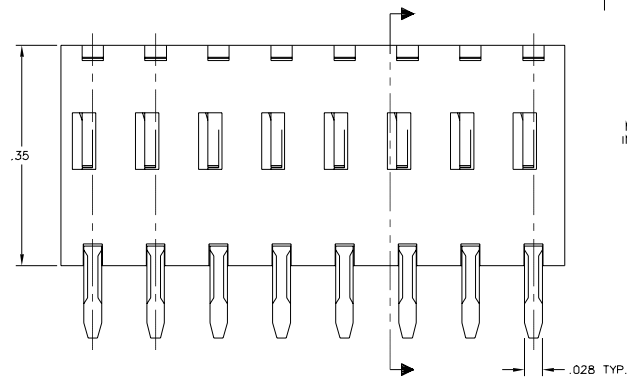
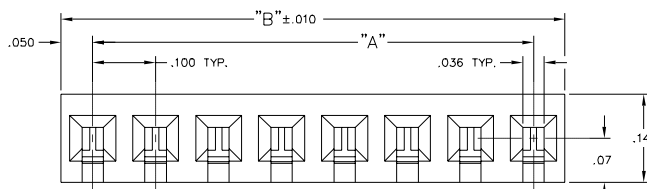
MATERIALS:

INSULATOR: PART NUMBERS 9000-101-301 THRU 9000-125-301 ARE POLYESTER (PET), 30% GLASS FILLED, UL 94-V0, COLOR IS BLACK; PART NUMBERS 9000-126-301 THRU 9000-165-301 ARE POLYESTER (PBT), 30% GLASS FILLED, UL 94-V0, COLOR IS BLACK;

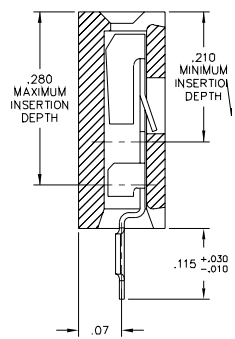
CONTACTS: PHOSPHOR BRONZE.

CONTACT FINISH:

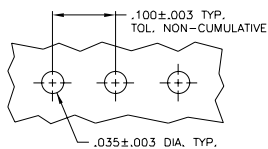
- 9000 - TIN/LEAD OVER NICKEL PLATE;
- 9008 - SELECT GOLD (.000030) IN CONTACT AREA AND SELECT TIN/LEAD (.0002/.0003) ON SOLDER TAILS WITH NICKEL UNDERPLATE OVERALL;
- 900E - SELECT GOLD (.000015) IN CONTACT AREA AND SELECT TIN/LEAD (.0002/.0003) ON SOLDER TAILS WITH NICKEL UNDERPLATE OVERALL.



-301 STRAIGHT TAILS



-303 OFFSET TAILS



RECOMMENDED P.C. BOARD LAYOUT

PART NUMBER	No. OF CKTS.	DIM "A"	DIM "B"
900X-101-30X	1	---	.100
-102-	2	.100	.200
-103-	3	.200	.300
-104-	4	.300	.400
-105-	5	.400	.500
-106-	6	.500	.600
-107-	7	.600	.700
-108-	8	.700	.800
-109-	9	.800	.900
-110-	10	.900	1.000
-111-	11	1.000	1.100
-112-	12	1.100	1.200
-113-	13	1.200	1.300
-114-	14	1.300	1.400
-115-	15	1.400	1.500
-116-	16	1.500	1.600
-117-	17	1.600	1.700
-118-	18	1.700	1.800
-119-	19	1.800	1.900
-120-	20	1.900	2.000
-121-	21	2.000	2.100
-122-	22	2.100	2.200
-123-	23	2.200	2.300
-124-	24	2.300	2.400
-125-	25	2.400	2.500
-126-	26	2.500	2.600
-127-	27	2.600	2.700
-128-	28	2.700	2.800
-129-	29	2.800	2.900
-130-	30	2.900	3.000
-131-	31	3.000	3.100
-132-	32	3.100	3.200
900X-133-30X	33	3.200	3.300

PART NUMBER	No. OF CKTS.	DIM "A"	DIM "B"
900X-134-30X	34	3.300	3.400
-135-	35	3.400	3.500
-136-	36	3.500	3.600
-137-	37	3.600	3.700
-138-	38	3.700	3.800
-139-	39	3.800	3.900
-140-	40	3.900	4.000
-141-	41	4.000	4.100
-142-	42	4.100	4.200
-143-	43	4.200	4.300
-144-	44	4.300	4.400
-145-	45	4.400	4.500
-146-	46	4.500	4.600
-147-	47	4.600	4.700
-148-	48	4.700	4.800
-149-	49	4.800	4.900
-150-	50	4.900	5.000
-151-	51	5.000	5.100
-152-	52	5.100	5.200
-153-	53	5.200	5.300
-154-	54	5.300	5.400
-155-	55	5.400	5.500
-156-	56	5.500	5.600
-157-	57	5.600	5.700
-158-	58	5.700	5.800
-159-	59	5.800	5.900
-160-	60	5.900	6.000
-161-	61	6.000	6.100
-162-	62	6.100	6.200
-163-	63	6.200	6.300
-164-	64	6.300	6.400
900X-165-30X	65	6.400	6.500



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysion Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

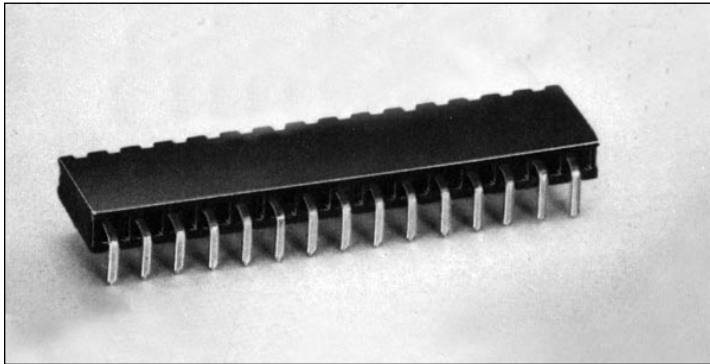
Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.100" (2.54mm) Single Row Through Hole Right Angle Connector



9000 SERIES "POST/BOXE"

PART NUMBER LEGEND

900X-1XX-302

NUMBER OF POSITIONS PER ROW

2 - 40

CONTACT FINISH

0 = TIN

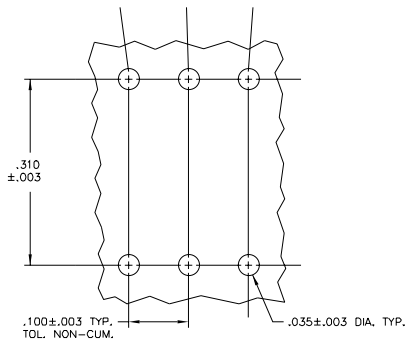
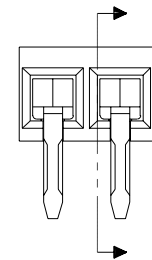
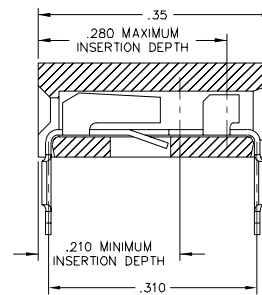
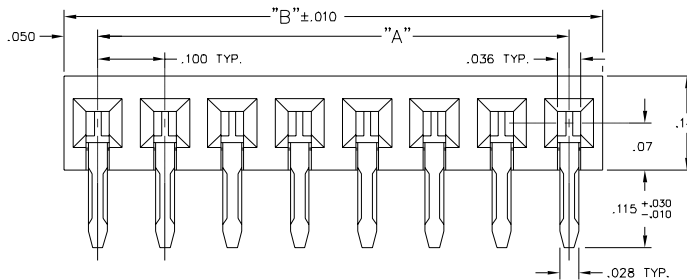
8 = .000030 SELECTIVE GOLD

F = .000015 SELECTIVE GOLD

MATING HEADERS: 9100 SERIES

NOTES:

- MATERIALS:
INSULATOR: PART NUMBERS 9000-101-302 THRU 9000-125-302 ARE POLYESTER (PET), 30% GLASS FILLED, UL 94-V0, COLOR IS BLACK; PART NUMBERS 9000-126-302 THRU 9000-165-302 ARE POLYESTER (PBT), 30% GLASS FILLED, UL 94-V0, COLOR IS BLACK; CONTACTS: PHOSPHOR BRONZE.
- CONTACT FINISH:
9000 - TIN/LEAD OVER NICKEL PLATE;
9008 - SELECT GOLD (.000030) IN CONTACT AREA AND SELECT TIN/LEAD (.0002/.0003) ON SOLDER TAILS WITH NICKEL UNDERPLATE (.000050/.000150) OVERALL;
900E - SELECT GOLD (.000015) IN CONTACT AREA AND SELECT TIN/LEAD (.0002/.0003) ON SOLDER TAILS WITH NICKEL UNDERPLATE (.000030) OVERALL.



RECOMMENDED P.C. BOARD LAYOUT

PART NUMBER	No. OF CKTS.	DIM "A"	DIM "B"
900X-101-302	1	---	.100
-102-	2	.100	.200
-103-	3	.200	.300
-104-	4	.300	.400
-105-	5	.400	.500
-106-	6	.500	.600
-107-	7	.600	.700
-108-	8	.700	.800
-109-	9	.800	.900
-110-	10	.900	1.000
-111-	11	1.000	1.100
-112-	12	1.100	1.200
-113-	13	1.200	1.300
-114-	14	1.300	1.400
-115-	15	1.400	1.500
-116-	16	1.500	1.600
-117-	17	1.600	1.700
-118-	18	1.700	1.800
-119-	19	1.800	1.900
-120-	20	1.900	2.000
-121-	21	2.000	2.100
-122-	22	2.100	2.200
-123-	23	2.200	2.300
-124-	24	2.300	2.400
-125-	25	2.400	2.500
-126-	26	2.500	2.600
-127-	27	2.600	2.700
-128-	28	2.700	2.800
-129-	29	2.800	2.900
-130-	30	2.900	3.000
-131-	31	3.000	3.100
-132-	32	3.100	3.200
900X-133-302	33	3.200	3.300

PART NUMBER	No. OF CKTS.	DIM "A"	DIM "B"
900X-134-302	34	3.300	3.400
-135-	35	3.400	3.500
-136-	36	3.500	3.600
-137-	37	3.600	3.700
-138-	38	3.700	3.800
-139-	39	3.800	3.900
-140-	40	3.900	4.000
-141-	41	4.000	4.100
-142-	42	4.100	4.200
-143-	43	4.200	4.300
-144-	44	4.300	4.400
-145-	45	4.400	4.500
-146-	46	4.500	4.600
-147-	47	4.600	4.700
-148-	48	4.700	4.800
-149-	49	4.800	4.900
-150-	50	4.900	5.000
-151-	51	5.000	5.100
-152-	52	5.100	5.200
-153-	53	5.200	5.300
-154-	54	5.300	5.400
-155-	55	5.400	5.500
-156-	56	5.500	5.600
-157-	57	5.600	5.700
-158-	58	5.700	5.800
-159-	59	5.800	5.900
-160-	60	5.900	6.000
-161-	61	6.000	6.100
-162-	62	6.100	6.200
-163-	63	6.200	6.300
-164-	64	6.300	6.400
900X-165-302	65	6.400	6.500

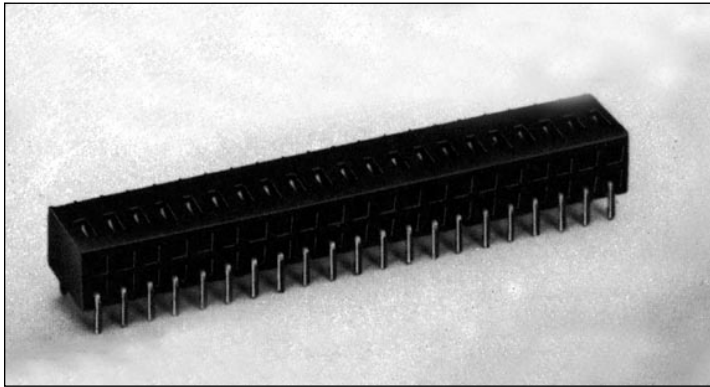


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

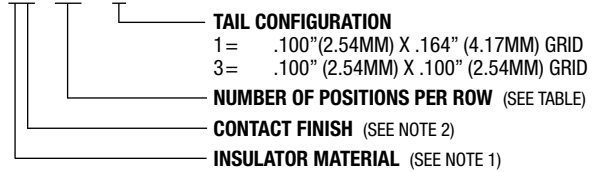
.100" (2.54mm) Dual Row Through Hole Vertical Mount Connectors



9000 SERIES "POST/BOXE"

PART NUMBER LEGEND

90XX-2XX-30X



MATING HEADERS: 9100 SERIES

NOTES:

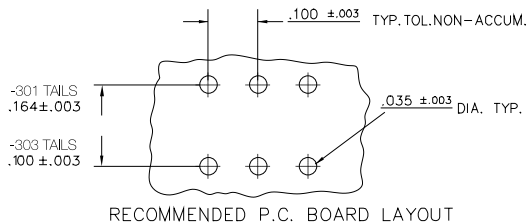
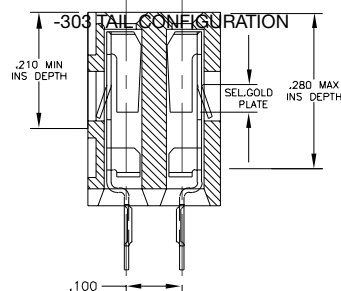
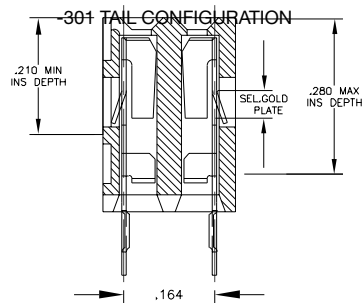
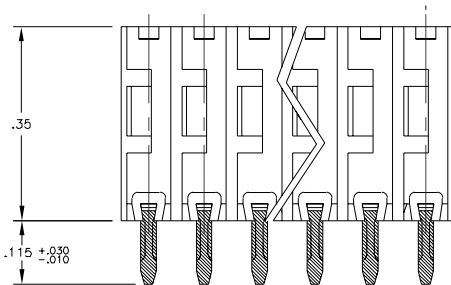
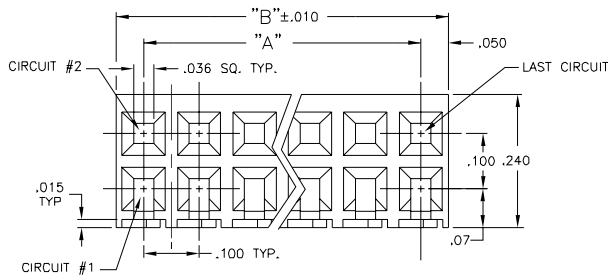
1) INSULATOR MATERIAL:

900X-2XX-301 : GLASS FILLED POLYESTER (PBT-002), UL 94V-0; COLOR: BLACK
 901X-2XX-301 : GLASS FILLED POLYESTER (PCT-002), UL 94V-0; COLOR: BLACK

CONTACT MATERIAL: PHOSPHOR BRONZE

2) CONTACT FINISH:

900X-2XX-303 : .000150/.000250 90/10 TIN/LEAD OVER .000050/.000150 NICKEL PLATE. (-405)
 90XB-2XX-303 : .000050/.000150 NICKEL PLATE ALL OVER .000030 SEL. GOLD IN MATING AREA, .000075/.000150 SEL. BRITE TIN/LEAD ON SOLDER TAILS. (-823)
 90XE-2XX-303 : .000050/.000150 NICKEL PLATE ALL OVER .000015 SEL. GOLD IN MATING AREA, .000075/.000150 SEL. BRITE TIN/LEAD ON SOLDER TAILS. (-824)



PART NUMBER	NO. OF CIRCUITS	DIM "A"	DIM "B"
900X-202-301	4	.100	.200
-203	6	.200	.300
-204	8	.300	.400
-205	10	.400	.500
-206	12	.500	.600
-207	14	.600	.700
-208	16	.700	.800
-209	18	.800	.900
-210	20	.900	1.000
-211	22	1.000	1.100
-212	24	1.100	1.200
-213	26	1.200	1.300
-214	28	1.300	1.400
-215	30	1.400	1.500
-216	32	1.500	1.600
-217	34	1.600	1.700
-218	36	1.700	1.800
-219	38	1.800	1.900
-220	40	1.900	2.000
-221	42	2.000	2.100
-222	44	2.100	2.200
-223	46	2.200	2.300
-224	48	2.300	2.400
-225	50	2.400	2.500
-226	52	2.500	2.600
-227	54	2.600	2.700
-228	56	2.700	2.800
-229	58	2.800	2.900
-230	60	2.900	3.000
-231	62	3.000	3.100
-232	64	3.100	3.200
-233-	66	3.200	3.300
-234-	68	3.300	3.400
-235	70	3.400	3.500
-236	72	3.500	3.600
-237	74	3.600	3.700
-238	76	3.700	3.800
-239	78	3.800	3.900
900X-240-301	80	3.900	4.000

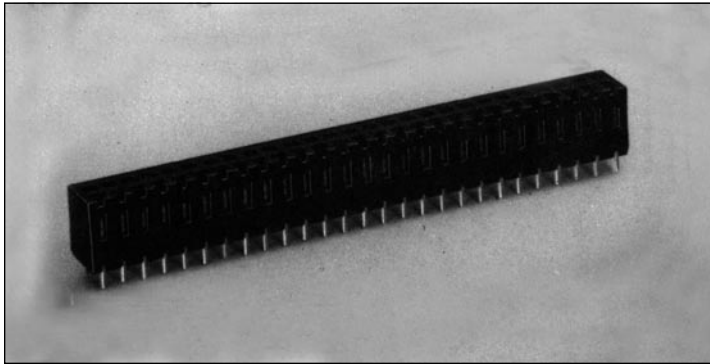


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

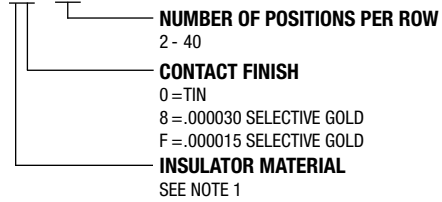
.100" (2.54mm) Dual Row Through Hole Right Angle Connectors



9000 SERIES "POST/BOXE"

PART NUMBER LEGEND

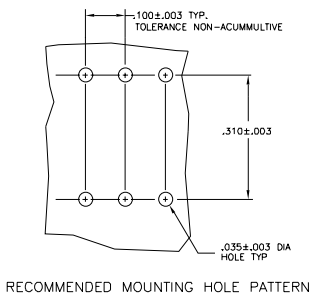
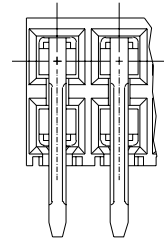
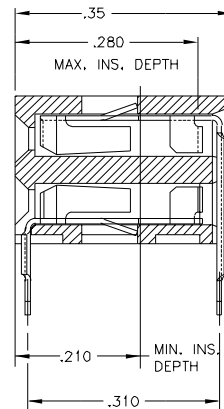
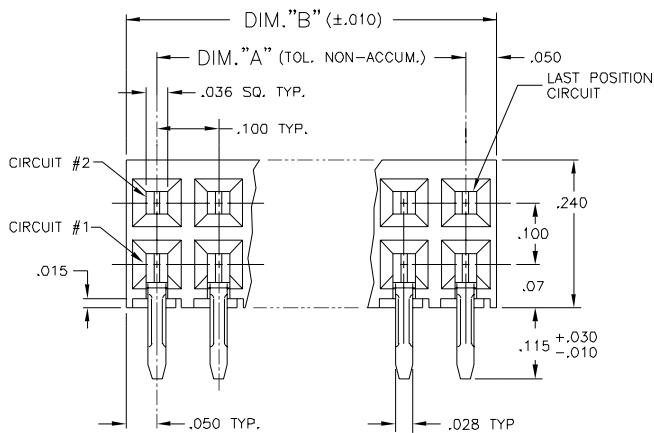
90XX-2XX-302



MATING HEADERS: 9100 SERIES

NOTES:

- INSULATOR MATERIAL:
90XX: POLYESTER (PBT), 30% G/R, UL 94V-0
90IX: POLYESTER (PCT), 30% G/R, UL 94V-0
CONTACT MATERIAL: PHOSPHOR BRONZE.
- CONTACT FINISH:
90X0 - TIN LEAD OVER NICKEL PLATE
90X8 - .000030 SELECTIVE GOLD PLATE IN CONTACT AREA OVER .000050/.000150 NICKEL PLATE; TIN PLATE ON SOLDER TAILS.
90XF - .000015 SELECTIVE GOLD PLATE IN CONTACT AREA OVER .000050/.000150 NICKEL PLATE; TIN PLATE ON SOLDER TAILS.



No. OF CKTS.	PART No.	DIM "A"	DIM "B"
2	90XX-201-302	---	.100
4	202	.100	.200
6	203	.200	.300
8	204	.300	.400
10	205	.400	.500
12	206	.500	.600
14	207	.600	.700
16	208	.700	.800
18	209	.800	.900
20	210	.900	1.000
22	211	1.000	1.100
24	212	1.100	1.200
26	213	1.200	1.300
28	214	1.300	1.400
30	215	1.400	1.500
32	216	1.500	1.600
34	217	1.600	1.700
36	218	1.700	1.800
38	219	1.800	1.900
40	220	1.900	2.000
42	221	2.000	2.100
44	90XX-222-302	2.100	2.200

No. OF CKTS.	PART No.	DIM "A"	DIM "B"
46	90XX-223-302	2.200	2.300
48	224	2.300	2.400
50	225	2.400	2.500
52	226	2.500	2.600
54	227	2.600	2.700
56	228	2.700	2.800
58	229	2.800	2.900
60	230	2.900	3.000
62	231	3.000	3.100
64	232	3.100	3.200
66	233	3.200	3.300
68	234	3.300	3.400
70	235	3.400	3.500
72	236	3.500	3.600
74	237	3.600	3.700
76	238	3.700	3.800
78	239	3.800	3.900
80	240	3.900	4.000
82	241	4.000	4.100
84	242	4.100	4.200
86	243	4.200	4.300
88	90XX-244-302	4.300	4.400

No. OF CKTS.	PART No.	DIM "A"	DIM "B"
90	90XX-245-302	4.400	4.500
92	246	4.500	4.600
94	247	4.600	4.700
96	248	4.700	4.800
98	249	4.800	4.900
100	250	4.900	5.000
102	251	5.000	5.100
104	252	5.100	5.200
106	253	5.200	5.300
108	254	5.300	5.400
110	255	5.400	5.500
112	256	5.500	5.600
114	257	5.600	5.700
116	258	5.700	5.800
118	259	5.800	5.900
120	260	5.900	6.000
122	261	6.000	6.100
124	262	6.100	6.200
126	263	6.200	6.300
128	264	6.300	6.400
130	90XX-265-302	6.400	6.500

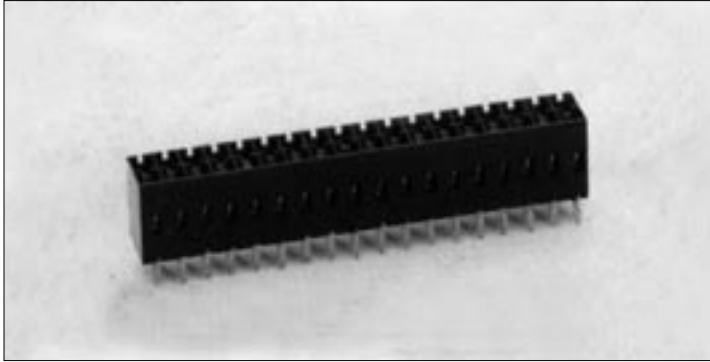


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.100" (2.54mm) Dual Row Through Hole Bottom Entry Connectors (Straight Tail)



9000 SERIES "POST/BOXE"

PART NUMBER LEGEND

920X-2XX-301

NUMBER OF POSITIONS PER ROW
2 - 40

CONTACT FINISH

0 = TIN

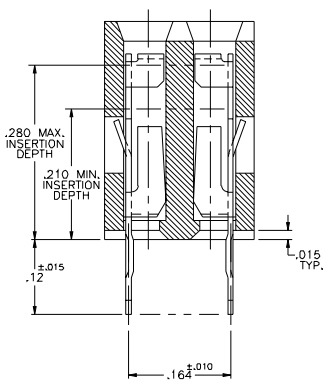
8 = .000030 SELECTIVE GOLD

F = .000015 SELECTIVE GOLD

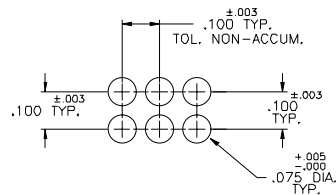
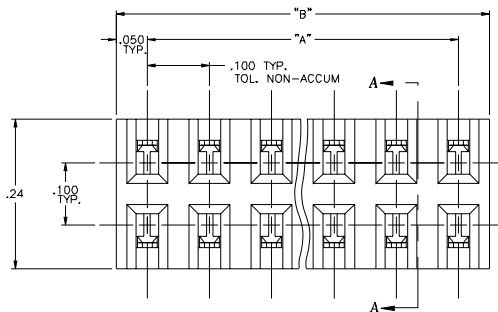
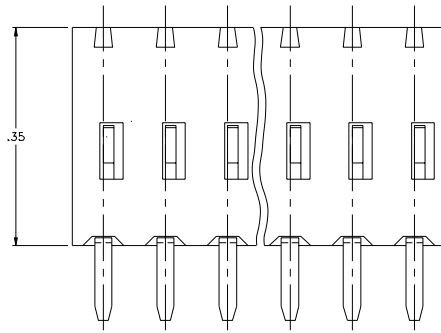
MATING HEADERS: 9100 SERIES

NOTES:

- INSULATOR MATERIAL: GLASS FILLED POLYESTER; UL 94V-0
COLOR: BLACK
CONTACT MATERIAL: PHOSPHOR BRONZE
- CONTACT FINISH:
9200-2XX-301 - TIN/LEAD OVER NICKEL PLATE. (-405)
9208-2XX-301 - .000030 SELECTIVE GOLD PLATE IN CONTACT AREA OVER NICKEL PLATE ALL OVER; SEL. TIN ON SOLDER TAILS. (-803)
920E-2XX-301 - SAME AS 9208-2XX-302 PLATING EXCEPT POST-SHEAR PLATED. (-819)



SECTION A-A



RECOMMENDED MOUNTING PATTERN

PART NUMBER	NO. OF CIRCUITS	DIM "A"	DIM "B"
920X-201-301	2		.100
↑ -202 ↑	4	.100	.200
-203	6	.200	.300
-204	8	.300	.400
-205	10	.400	.500
-206	12	.500	.600
-207	14	.600	.700
-208	16	.700	.800
-209	18	.800	.900
-210	20	.900	1.000
-211	22	1.000	1.100
-212	24	1.100	1.200
-213	26	1.200	1.300
-214	28	1.300	1.400
-215	30	1.400	1.500
-216	32	1.500	1.600
-217	34	1.600	1.700
-218	36	1.700	1.800
-219	38	1.800	1.900
-220	40	1.900	2.000
-221	42	2.000	2.100
-222	44	2.100	2.200
-223	46	2.200	2.300
-224	48	2.300	2.400
-225	50	2.400	2.500
-226	52	2.500	2.600
-227	54	2.600	2.700
-228	56	2.700	2.800
-229	58	2.800	2.900
-230	60	2.900	3.000
-231	62	3.000	3.100
-232	64	3.100	3.200
-233	66	3.200	3.300
-234	68	3.300	3.400
-235	70	3.400	3.500
-236	72	3.500	3.600
-237	74	3.600	3.700
-238	76	3.700	3.800
-239	78	3.800	3.900
-240	80	3.900	4.000
-241	82	4.000	4.100
-242	84	4.100	4.200
-243	86	4.200	4.300
-244	88	4.300	4.400
-245	90	4.400	4.500
-246	92	4.500	4.600
-247	94	4.600	4.700
-248	96	4.700	4.800
-249	98	4.800	4.900
-250	100	4.900	5.000
-251	102	5.000	5.100
-252	104	5.100	5.200
-253	106	5.200	5.300
-254	108	5.300	5.400
-255	110	5.400	5.500
-256	112	5.500	5.600
-257	114	5.600	5.700
-258	116	5.700	5.800
-259	118	5.800	5.900
-260	120	5.900	6.000
-261	122	6.000	6.100
-262	124	6.100	6.200
-263	126	6.200	6.300
↓ -264 ↓	128	6.300	6.400
920X-265-301	130	6.400	6.500



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

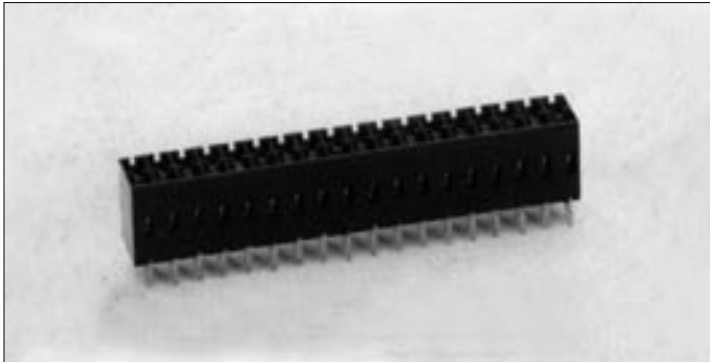
Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.100" (2.54mm) Dual Row Through Hole Bottom Entry Connectors (Offset Tail)



9000 SERIES "POST/BOXE"

PART NUMBER LEGEND

920X-2XX-302

NUMBER OF POSITIONS PER ROW
1 - 40

CONTACT FINISH

0 = TIN

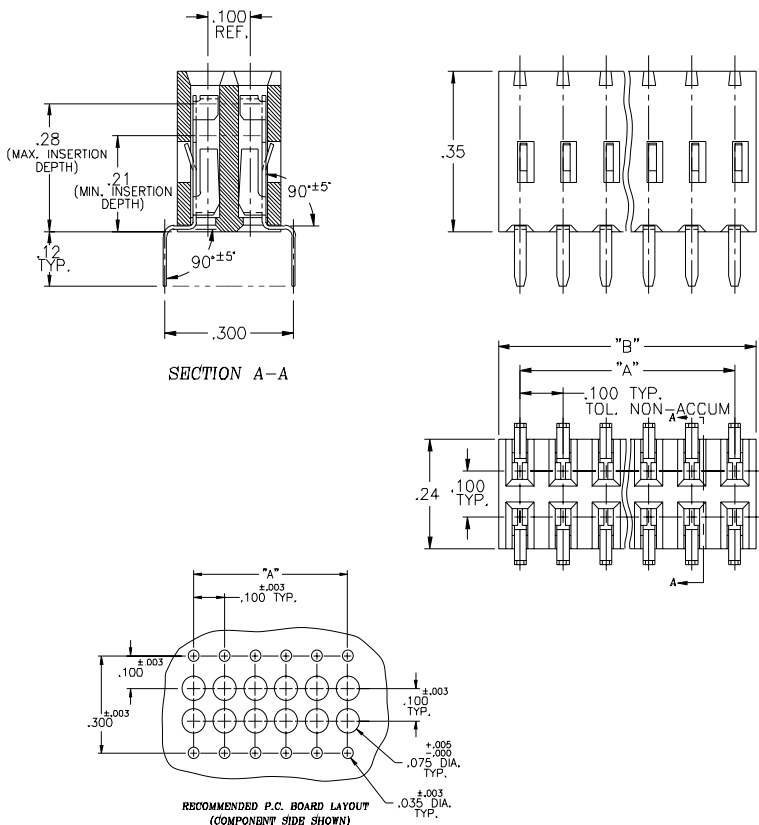
8 = .000030 SELECTIVE GOLD

F = .000015 SELECTIVE GOLD

MATING HEADERS: 9100 SERIES

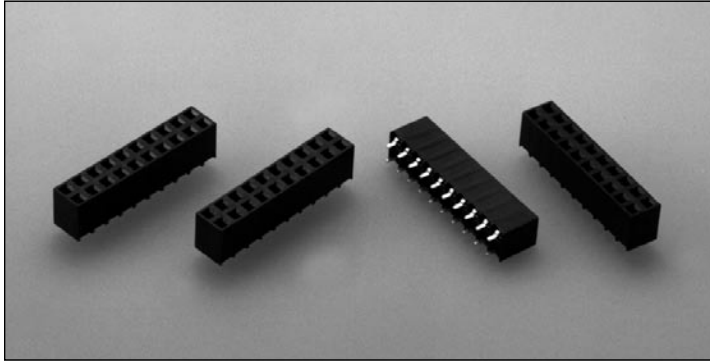
NOTES:

- INSULATOR MATERIAL: GLASS FILLED POLYESTER; UL 94V-0
COLOR: BLACK
CONTACT MATERIAL: PHOSPHOR BRONZE
- CONTACT FINISH:
9200-2XX-302 - TIN/LEAD OVER NICKEL PLATE.
9208-2XX-302 - .000030 SELECTIVE GOLD PLATE IN CONTACT AREA OVER
.000050/.000150 NICKEL PLATE ALL OVER; SEL. TIN ON SOLDER TAILS.
920E-2XX-302 - SAME AS 9208-2XX-302 PLATING EXCEPT POST-SHEAR PLATED.



PART NUMBER	NO. OF CIRCUITS	DIM "A"	DIM "B"
920X-201-302	2		.100
↑ -202 ↑	4	.100	.200
-203	6	.200	.300
-204	8	.300	.400
-205	10	.400	.500
-206	12	.500	.600
-207	14	.600	.700
-208	16	.700	.800
-209	18	.800	.900
-210	20	.900	1.000
-211	22	1.000	1.100
-212	24	1.100	1.200
-213	26	1.200	1.300
-214	28	1.300	1.400
-215	30	1.400	1.500
-216	32	1.500	1.600
-217	34	1.600	1.700
-218	36	1.700	1.800
-219	38	1.800	1.900
-220	40	1.900	2.000
-221	42	2.000	2.100
-222	44	2.100	2.200
-223	46	2.200	2.300
-224	48	2.300	2.400
-225	50	2.400	2.500
-226	52	2.500	2.600
-227	54	2.600	2.700
-228	56	2.700	2.800
-229	58	2.800	2.900
-230	60	2.900	3.000
-231	62	3.000	3.100
-232	64	3.100	3.200
-233	66	3.200	3.300
-234	68	3.300	3.400
-235	70	3.400	3.500
-236	72	3.500	3.600
-237	74	3.600	3.700
-238	76	3.700	3.800
-239	78	3.800	3.900
-240	80	3.900	4.000
-241	82	4.000	4.100
-242	84	4.100	4.200
-243	86	4.200	4.300
-244	88	4.300	4.400
-245	90	4.400	4.500
-246	92	4.500	4.600
-247	94	4.600	4.700
-248	96	4.700	4.800
-249	98	4.800	4.900
-250	100	4.900	5.000
-251	102	5.000	5.100
-252	104	5.100	5.200
-253	106	5.200	5.300
-254	108	5.300	5.400
-255	110	5.400	5.500
-256	112	5.500	5.600
-257	114	5.600	5.700
-258	116	5.700	5.800
-259	118	5.800	5.900
-260	120	5.900	6.000
-261	122	6.000	6.100
-262	124	6.100	6.200
-263	126	6.200	6.300
↓ -264 ↓	128	6.300	6.400
920X-265-302	130	6.400	6.500

.100" (2.54mm) Low Profile Vertical Through Hole Dual Row Connectors (.100" x .100" Tails)



9000 SERIES "POST/BOXE"

PART NUMBER LEGEND

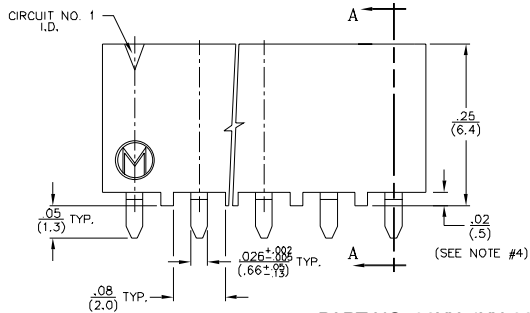
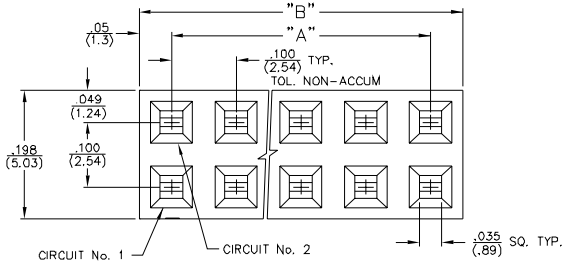
900X-4XX-30X

TAIL CONFIGURATION	3 = .12 (3.05)
	7 = .05 (1.37)
NUMBER OF POSITIONS PER ROW	2-40
CONTACT FINISH	0 = TIN
	8 = .000030 SELECTIVE GOLD
	F = .000015 SELECTIVE GOLD

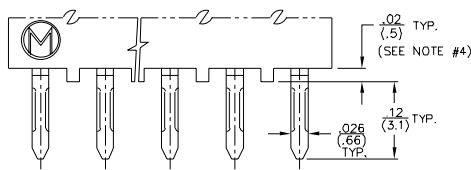
MATING HEADERS: 9100 SERIES

NOTES:

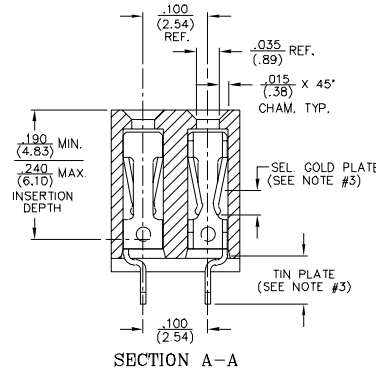
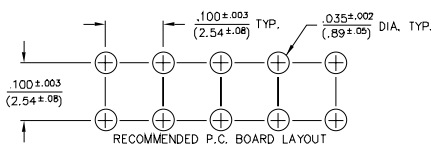
- INSULATOR MATERIAL:
900X: POLYESTER (PCT), 30% GLASS FILLED, UL 94V-0; COLOR: BLACK.
- CONTACT MATERIAL: PHOSPHOR BRONZE.
- CONTACT FINISH:
90X0: BRITE TIN PLATE.
90XB: .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
90XE: .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
90XP-4XX-30X ONLY: (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
90XR-4XX-30X ONLY: (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
- END STANDOFFS ARE PRESENT ON P/N 90XX-402-30X ONLY. P/N 90XX-403-30X THRU 90XX-440-30X WILL NOT HAVE END STANDOFFS.
- DIMENSIONS ARE IN IN./ (MM)



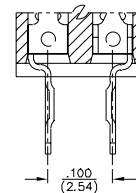
PART NO. 90XX-4XX-307



PART NO. 90XX-4XX-303



SECTION A-A



PART NO.	No. OF CIRCUITS	"DIM. A"	"DIM. B"
90XX-402-30X	4	.100 (2.54)	.20 (5.1)
↑-403-↑	6	.200 (5.08)	.30 (7.6)
-404-	8	.300 (7.62)	.40 (10.2)
-405-	10	.400 (10.16)	.50 (12.7)
-406-	12	.500 (12.70)	.60 (15.2)
-407-	14	.600 (15.24)	.70 (17.8)
-408-	16	.700 (17.78)	.80 (20.3)
-409-	18	.800 (20.32)	.90 (22.9)
-410-	20	.900 (22.86)	1.00 (25.4)
-411-	22	1.000 (25.40)	1.10 (27.9)
-412-	24	1.100 (27.94)	1.20 (30.5)
-413-	26	1.200 (30.48)	1.30 (33.0)
-414-	28	1.300 (33.02)	1.40 (35.6)
-415-	30	1.400 (35.56)	1.50 (38.1)
-416-	32	1.500 (38.10)	1.60 (40.6)
-417-	34	1.600 (40.64)	1.70 (43.2)
-418-	36	1.700 (43.18)	1.80 (45.7)
-419-	38	1.800 (45.72)	1.90 (48.3)
-420-	40	1.900 (48.26)	2.00 (50.8)
-421-	42	2.000 (50.80)	2.10 (53.3)
-422-	44	2.100 (53.34)	2.20 (55.9)
-423-	46	2.200 (55.88)	2.30 (58.4)
-424-	48	2.300 (58.42)	2.40 (61.0)
-425-	50	2.400 (60.96)	2.50 (63.5)
-426-	52	2.500 (63.50)	2.60 (66.0)
-427-	54	2.600 (66.04)	2.70 (68.6)
-428-	56	2.700 (68.58)	2.80 (71.1)
-429-	58	2.800 (71.12)	2.90 (73.7)
-430-	60	2.900 (73.66)	3.00 (76.2)
-431-	62	3.000 (76.20)	3.10 (78.7)
-432-	64	3.100 (78.74)	3.20 (81.3)
-433-	66	3.200 (81.28)	3.30 (83.8)
-434-	68	3.300 (83.82)	3.40 (86.4)
-435-	70	3.400 (86.36)	3.50 (88.9)
-436-	72	3.500 (88.90)	3.60 (91.4)
-437-	74	3.600 (91.44)	3.70 (94.0)
-438-	76	3.700 (93.98)	3.80 (96.5)
↑-439-↓	78	3.800 (96.52)	3.90 (99.1)
90XX-440-30X	80	3.900 (99.06)	4.00 (101.6)

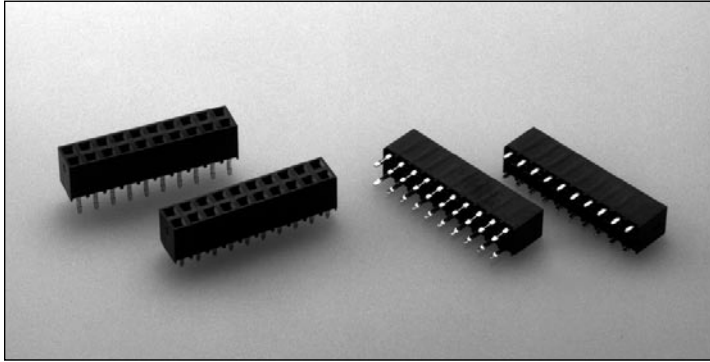


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysion Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

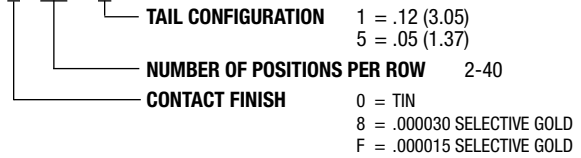
.100" (2.54mm) Low Profile Vertical Through Hole Dual Row Connectors (.100" x .150" Tails)



9000 SERIES "POST/BOXE"

PART NUMBER LEGEND

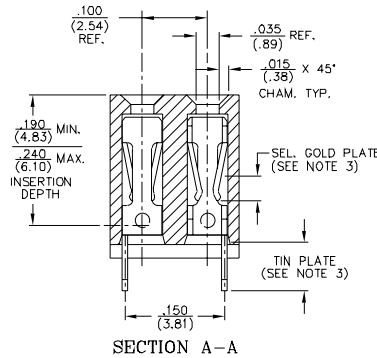
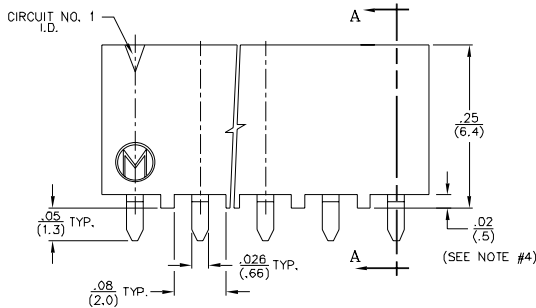
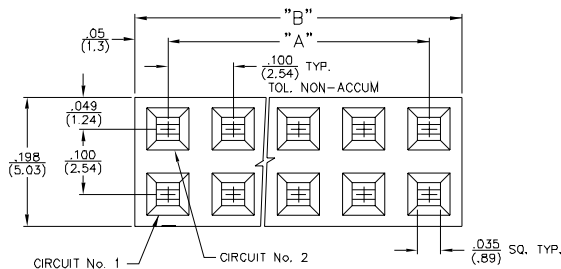
900X-4XX-30X



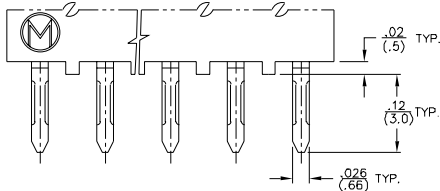
MATING HEADERS: 9100 SERIES

NOTES:

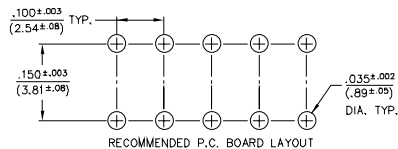
- INSULATOR MATERIAL:
900X: POLYESTER (PCT), 30% GLASS FILLED, UL 94V-0, COLOR: BLACK.
- CONTACT MATERIAL: PHOSPHOR BRONZE.
- CONTACT FINISH:
900X: BRITE TIN PLATE
900B: .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
900E: .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
900E-4XX-301 ONLY: (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
900E-4XX-301 ONLY: (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
- END STANDOFFS ARE PRESENT ON P/N 900X-402-30X ONLY. P/N 900X-403-30X THRU 900X-440-30X WILL NOT HAVE END STANDOFFS.
- DIMENSIONS ARE IN IN./ (MM).



PART NO. 90XX-4XX-305



PART NO. 90XX-4XX-301



PART NO.	No. OF CIRCUITS	"DIM. A"	"DIM. B"
90XX-402-30X	4	.100 (2.54)	.20 (5.1)
↑ -403- ↑	6	.200 (5.08)	.30 (7.6)
-404-	8	.300 (7.62)	.40 (10.2)
-405-	10	.400 (10.16)	.50 (12.7)
-406-	12	.500 (12.70)	.60 (15.2)
-407-	14	.600 (15.24)	.70 (17.8)
-408-	16	.700 (17.78)	.80 (20.3)
-409-	18	.800 (20.32)	.90 (22.9)
-410-	20	.900 (22.86)	1.00 (25.4)
-411-	22	1.000 (25.40)	1.10 (27.9)
-412-	24	1.100 (27.94)	1.20 (30.5)
-413-	26	1.200 (30.48)	1.30 (33.0)
-414-	28	1.300 (33.02)	1.40 (35.6)
-415-	30	1.400 (35.56)	1.50 (38.1)
-416-	32	1.500 (38.10)	1.60 (40.6)
-417-	34	1.600 (40.64)	1.70 (43.2)
-418-	36	1.700 (43.18)	1.80 (45.7)
-419-	38	1.800 (45.72)	1.90 (48.3)
-420-	40	1.900 (48.26)	2.00 (50.8)
-421-	42	2.000 (50.80)	2.10 (53.3)
-422-	44	2.100 (53.34)	2.20 (55.9)
-423-	46	2.200 (55.88)	2.30 (58.4)
-424-	48	2.300 (58.42)	2.40 (61.0)
-425-	50	2.400 (60.96)	2.50 (63.5)
-426-	52	2.500 (63.50)	2.60 (66.0)
-427-	54	2.600 (66.04)	2.70 (68.6)
-428-	56	2.700 (68.58)	2.80 (71.1)
-429-	58	2.800 (71.12)	2.90 (73.7)
-430-	60	2.900 (73.66)	3.00 (76.2)
-431-	62	3.000 (76.20)	3.10 (78.7)
-432-	64	3.100 (78.74)	3.20 (81.3)
-433-	66	3.200 (81.28)	3.30 (83.8)
-434-	68	3.300 (83.82)	3.40 (86.4)
-435-	70	3.400 (86.36)	3.50 (88.9)
-436-	72	3.500 (88.90)	3.60 (91.4)
-437-	74	3.600 (91.44)	3.70 (94.0)
-438-	76	3.700 (93.98)	3.80 (96.5)
-439-	78	3.800 (96.52)	3.90 (99.1)
90XX-440-30X	80	3.900 (99.06)	4.00 (101.6)



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysillon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

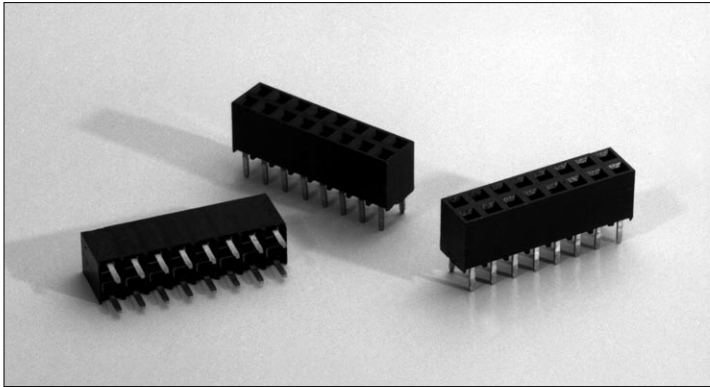
Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.100" (2.54mm) Low Profile Dual Row Through Hole Bottom Entry Connectors (Straight Tail)



9000 SERIES "POST/BOXE"

PART NUMBER LEGEND

920X-4XX-301

NUMBER OF POSITIONS PER ROW
2 - 40

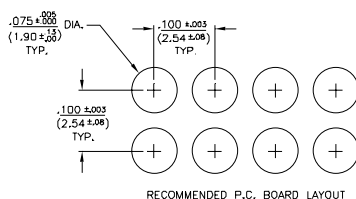
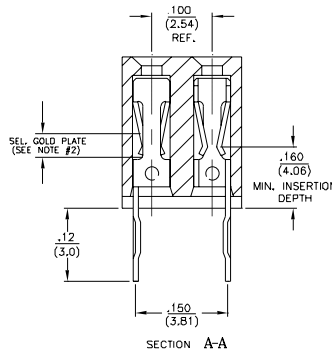
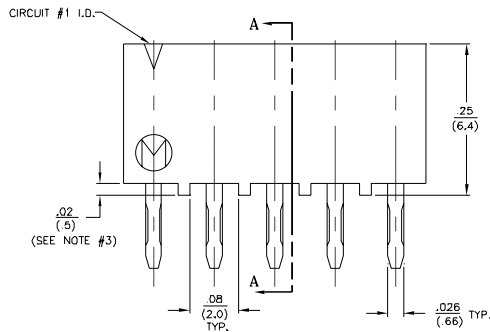
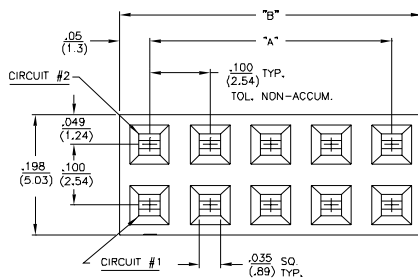
CONTACT FINISH

0 = TIN
8 = .00030 SELECTIVE GOLD
F = .00015 SELECTIVE GOLD

MATING HEADERS: 9100 SERIES

NOTES :

- INSULATOR MATERIAL :
920X : POLYESTER (PCT), 30% GLASS FILLED, UL 94V-0; COLOR: BLACK.
CONTACT MATERIAL PHOSPHOR BRONZE
- CONTACT FINISH :
92X0 : BRITE TIN PLATE
92XB : .00050 NICKEL PLATE ALL OVER; .00030 SEL. GOLD PLATING AS INDICATED; .0001- .0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
92XF : .00050 NICKEL PLATE ALL OVER; .00015 SEL. GOLD PLATING AS INDICATED; .0001- .0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
920P : (POST-SHEAR PLATING) .00050 NICKEL PLATE ALL OVER; .00030 SEL. GOLD PLATING AS INDICATED; .0001- .0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
920R : (POST-SHEAR PLATING) .00050 NICKEL PLATE ALL OVER; .00015 SEL. GOLD PLATING AS INDICATED; .0001- .0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
- END STANDOFFS ARE PRESENT ON P/N 92XX-402-301 ONLY. P/N 92XX-403-301 THRU 92XX-440-301 WILL NOT HAVE END STANDOFFS.
- ALL DIMENSIONS ARE IN IN./ (MM).



PART NO.	No. OF CIRCUITS	"DIM. A"	"DIM. B"
92XX-402-301	4	.100 (2.54)	.20 (5.1)
↑-403-↑	6	.200 (5.08)	.30 (7.6)
-404-	8	.300 (7.62)	.40 (10.2)
-405-	10	.400 (10.16)	.50 (12.7)
-406-	12	.500 (12.70)	.60 (15.2)
-407-	14	.600 (15.24)	.70 (17.8)
-408-	16	.700 (17.78)	.80 (20.3)
-409-	18	.800 (20.32)	.90 (22.9)
-410-	20	.900 (22.86)	1.00 (25.4)
-411-	22	1.000 (25.40)	1.10 (27.9)
-412-	24	1.100 (27.94)	1.20 (30.5)
-413-	26	1.200 (30.48)	1.30 (33.0)
-414-	28	1.300 (33.02)	1.40 (35.6)
-415-	30	1.400 (35.56)	1.50 (38.1)
-416-	32	1.500 (38.10)	1.60 (40.6)
-417-	34	1.600 (40.64)	1.70 (43.2)
-418-	36	1.700 (43.18)	1.80 (45.7)
-419-	38	1.800 (45.72)	1.90 (48.3)
-420-	40	1.900 (48.26)	2.00 (50.8)
-421-	42	2.000 (50.80)	2.10 (53.3)
-422-	44	2.100 (53.34)	2.20 (55.9)
-423-	46	2.200 (55.88)	2.30 (58.4)
-424-	48	2.300 (58.42)	2.40 (61.0)
-425-	50	2.400 (60.96)	2.50 (63.5)
-426-	52	2.500 (63.50)	2.60 (66.0)
-427-	54	2.600 (66.04)	2.70 (68.6)
-428-	56	2.700 (68.58)	2.80 (71.1)
-429-	58	2.800 (71.12)	2.90 (73.7)
-430-	60	2.900 (73.66)	3.00 (76.2)
-431-	62	3.000 (76.20)	3.10 (78.7)
-432-	64	3.100 (78.74)	3.20 (81.3)
-433-	66	3.200 (81.28)	3.30 (83.8)
-434-	68	3.300 (83.82)	3.40 (86.4)
-435-	70	3.400 (86.36)	3.50 (88.9)
-436-	72	3.500 (88.90)	3.60 (91.4)
-437-	74	3.600 (91.44)	3.70 (94.0)
-438-	76	3.700 (93.98)	3.80 (96.5)
↑-439-↓	78	3.800 (96.52)	3.90 (99.1)
92XX-440-301	80	3.900 (99.06)	4.00 (101.6)

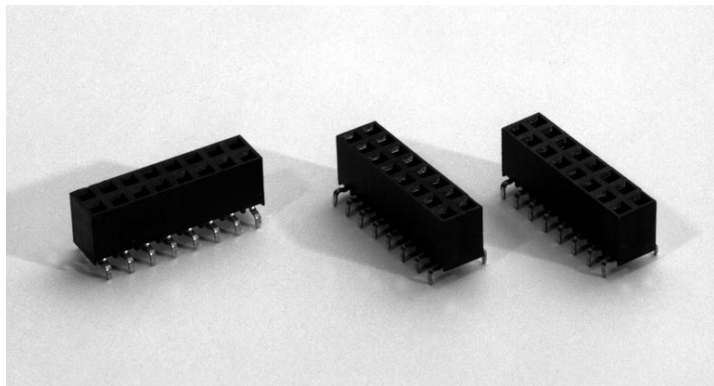


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.100" (2.54mm) Low Profile Dual Row Through Hole Bottom Entry Connectors (offset Tail)



9000 SERIES "POST/BOXE"

PART NUMBER LEGEND

920X-4XX-302

NUMBER OF POSITIONS PER ROW
2 - 40

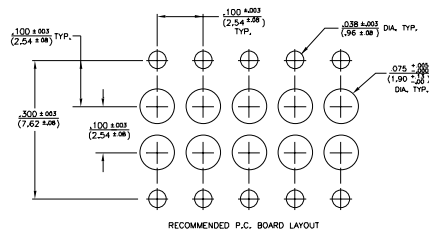
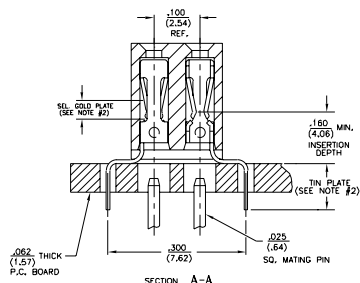
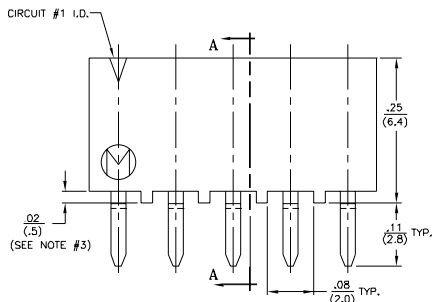
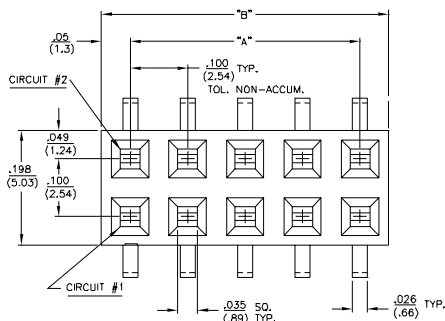
CONTACT FINISH

0 = TIN
8 = .000030 SELECTIVE GOLD
F = .000015 SELECTIVE GOLD

MATING HEADERS: 9100 SERIES

NOTES :

- INSULATOR MATERIAL :
920X : POLYESTER (PCT), 30% GLASS FILLED, UL 94V-0; COLOR: BLACK.
CONTACT MATERIAL : PHOSPHOR BRONZE.
- CONTACT FINISH :
92X0 : BRITE TIN PLATE.
92X8 : .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
92XF : .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
92XP : (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
92XR : (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.
- END STANDOFFS ARE PRESENT ON P/N 92XX-402-302 ONLY, P/N 92XX-403-302 THRU 92XX-440-302 WILL NOT HAVE END STANDOFFS.



PART NO.	No. OF Circuits	"DIM. A"	"DIM. B"
92XX-402-302	4	.100 (2.54)	.20 (5.1)
↑-403-↑	6	.200 (5.08)	.30 (7.6)
-404-	8	.300 (7.62)	.40 (10.2)
-405-	10	.400 (10.16)	.50 (12.7)
-406-	12	.500 (12.70)	.60 (15.2)
-407-	14	.600 (15.24)	.70 (17.8)
-408-	16	.700 (17.78)	.80 (20.3)
-409-	18	.800 (20.32)	.90 (22.9)
-410-	20	.900 (22.86)	1.00 (25.4)
-411-	22	1.000 (25.40)	1.10 (27.9)
-412-	24	1.100 (27.94)	1.20 (30.5)
-413-	26	1.200 (30.48)	1.30 (33.0)
-414-	28	1.300 (33.02)	1.40 (35.6)
-415-	30	1.400 (35.56)	1.50 (38.1)
-416-	32	1.500 (38.10)	1.60 (40.6)
-417-	34	1.600 (40.64)	1.70 (43.2)
-418-	36	1.700 (43.18)	1.80 (45.7)
-419-	38	1.800 (45.72)	1.90 (48.3)
-420-	40	1.900 (48.26)	2.00 (50.8)
-421-	42	2.000 (50.80)	2.10 (53.3)
-422-	44	2.100 (53.34)	2.20 (55.9)
-423-	46	2.200 (55.88)	2.30 (58.4)
-424-	48	2.300 (58.42)	2.40 (61.0)
-425-	50	2.400 (60.96)	2.50 (63.5)
-426-	52	2.500 (63.50)	2.60 (66.0)
-427-	54	2.600 (66.04)	2.70 (68.6)
-428-	56	2.700 (68.58)	2.80 (71.1)
-429-	58	2.800 (71.12)	2.90 (73.7)
-430-	60	2.900 (73.66)	3.00 (76.2)
-431-	62	3.000 (76.20)	3.10 (78.7)
-432-	64	3.100 (78.74)	3.20 (81.3)
-433-	66	3.200 (81.28)	3.30 (83.8)
-434-	68	3.300 (83.82)	3.40 (86.4)
-435-	70	3.400 (86.36)	3.50 (88.9)
-436-	72	3.500 (88.90)	3.60 (91.4)
-437-	74	3.600 (91.44)	3.70 (94.0)
-438-	76	3.700 (93.98)	3.80 (96.5)
↑-439-↓	78	3.800 (96.52)	3.90 (99.1)
92XX-440-302	80	3.900 (99.06)	4.00 (101.6)



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

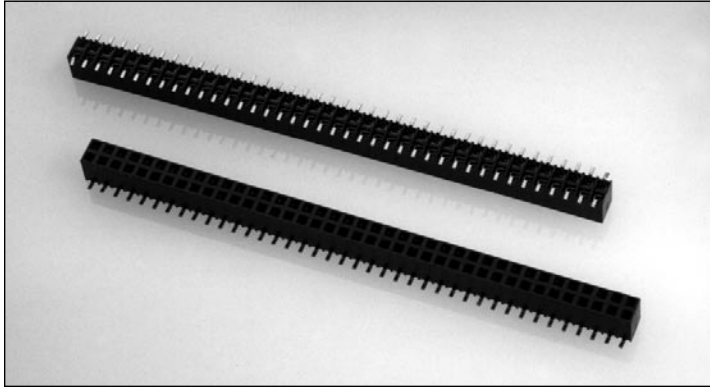
Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

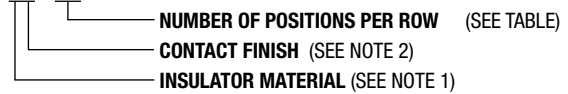
.100" (2.54mm) Surface Mount Dual Row Vertical Connectors



9000 SERIES "POST/BOXE"

PART NUMBER LEGEND

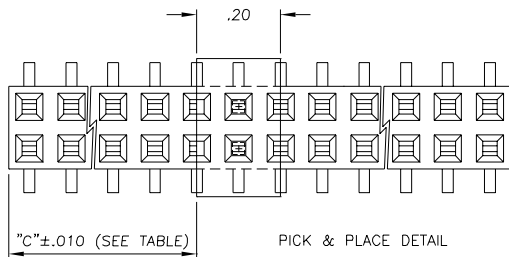
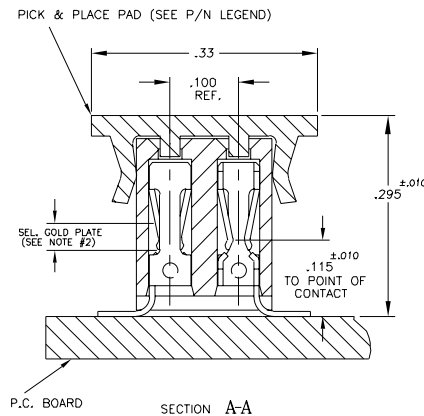
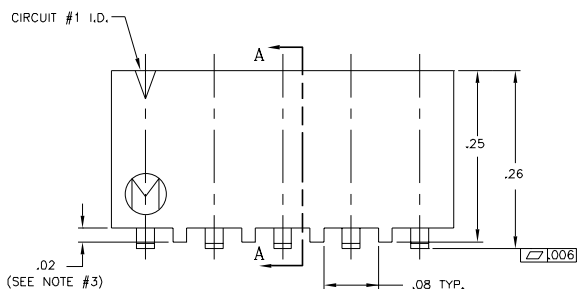
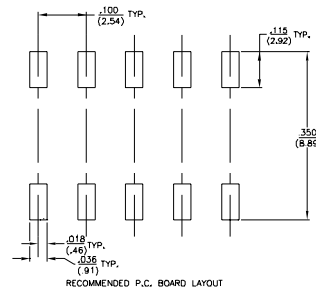
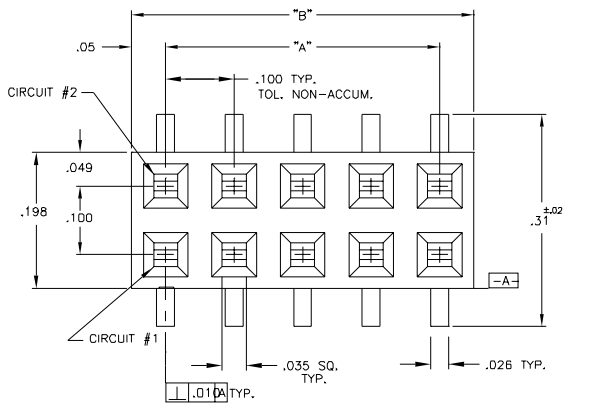
90XX-4XX-501



MATING HEADERS: 9100 SERIES

NOTES :

- INSULATOR MATERIAL :
900X : POLYESTER (PCT), 30% GLASS FILLED, EASTMAN EKTAR FG C6907; UL 94V-0; COLOR: BLACK.
CONTACT MATERIAL : PHOSPHOR BRONZE, ALLOY 521.
- CONTACT FINISH :
90X0 : .0001-.0002 BRITE TIN PLATE OVER .0001 MIN. COPPER PLATE. (-206)
90XB : .000050/.000150 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL. (-823)
90XF : .000050/.000150 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL. (-824)
90XP : (POST-SHEAR PLATING) .000050/.000150 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL. (-825)
90XR : (POST-SHEAR PLATING) .000050-.000150 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL. (-826)
- END STANDOFFS ARE PRESENT ON P/N 90XX-402-501 ONLY, P/N 90XX-403-501 THRU 90XX-440-501 WILL NOT HAVE END STANDOFFS.



PART NO.	No. Of CIRCUITS	"DIM. A"	"DIM. B"	"DIM. C"
90XX-402-501	4	.100	.20	N/A
-403-	6	.200	.30	.05
-404-	8	.300	.40	.05
-405-	10	.400	.50	.15
-406-	12	.500	.60	.15
-407-	14	.600	.70	.25
-408-	16	.700	.80	.25
-409-	18	.800	.90	.35
-410-	20	.900	1.00	.35
-411-	22	1.000	1.10	.45
-412-	24	1.100	1.20	.45
-413-	26	1.200	1.30	.55
-414-	28	1.300	1.40	.55
-415-	30	1.400	1.50	.65
-416-	32	1.500	1.60	.65
-417-	34	1.600	1.70	.75
-418-	36	1.700	1.80	.75
-419-	38	1.800	1.90	.85
-420-	40	1.900	2.00	.85
-421-	42	2.000	2.10	.95
-422-	44	2.100	2.20	.95
-423-	46	2.200	2.30	1.05
-424-	48	2.300	2.40	1.05
-425-	50	2.400	2.50	1.15
-426-	52	2.500	2.60	1.15
-427-	54	2.600	2.70	1.25
-428-	56	2.700	2.80	1.25
-429-	58	2.800	2.90	1.35
-430-	60	2.900	3.00	1.35
-431-	62	3.000	3.10	1.45
-432-	64	3.100	3.20	1.45
-433-	66	3.200	3.30	1.55
-434-	68	3.300	3.40	1.55
-435-	70	3.400	3.50	1.65
-436-	72	3.500	3.60	1.65
-437-	74	3.600	3.70	1.75
-438-	76	3.700	3.80	1.75
-439-	78	3.800	3.90	1.85
90XX-440-501	80	3.900	4.00	1.85

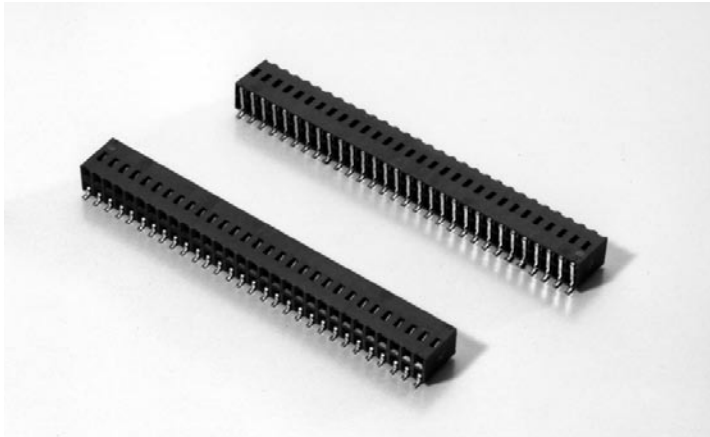


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysion Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.100" (2.54mm) Surface Mount Right Angle Dual Row Connector



9000 SERIES "POST/BOXE"

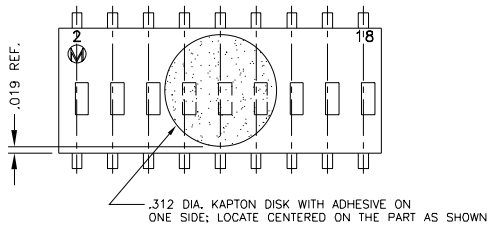
PART NUMBER LEGEND

900X-2XX-502

NUMBER OF POSITIONS PER ROW (SEE TABLE)

CONTACT FINISH (SEE NOTE 2)

MATING HEADERS: 9100 SERIES



NOTES:

1) INSULATOR MATERIAL: GLASS FILLED POLYESTER, UL 94V-0

CONTACT MATERIAL: PHOSPHOR BRONZE

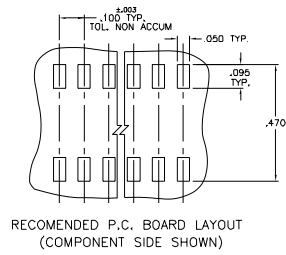
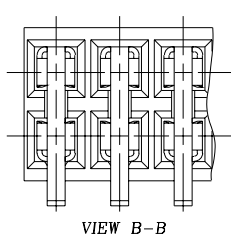
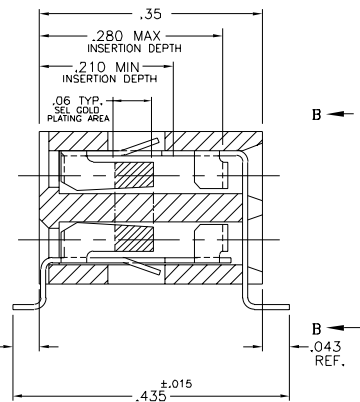
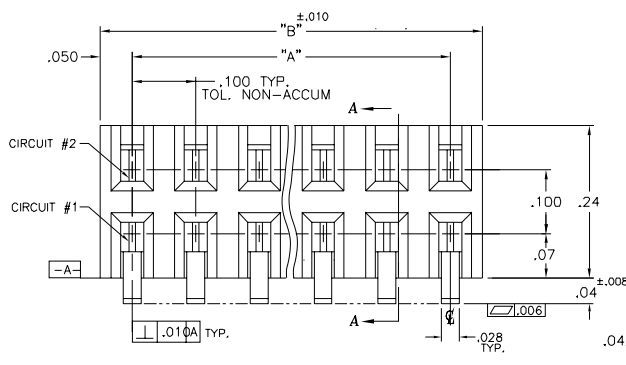
2) CONTACT FINISH:

9000-2XX-502 : 90/10 TIN/LEAD OVER NICKEL PLATE

9008-2XX-502 : .000030 SEL. GOLD IN MATING AREA,
SEL. BRITE TIN/LEAD ON SOLDER TAILS

900F-2XX-502 : .000015 SEL. GOLD IN MATING AREA,
SEL. BRITE TIN/LEAD ON SOLDER TAILS

900P-2XX-502 : (POST-SHEAR PLATING) .000030 SEL. GOLD
IN MATING AREA, SEL. TIN PLATE ON SOLDER TAILS



PART NUMBER	NO. OF CIRCUITS	DIM "A"	DIM "B"
900X-202-502	4	.100	.200
-203	6	.200	.300
-204	8	.300	.400
-205	10	.400	.500
-206	12	.500	.600
-207	14	.600	.700
-208	16	.700	.800
-209	18	.800	.900
-210	20	.900	1.000
-211	22	1.000	1.100
-212	24	1.100	1.200
-213	26	1.200	1.300
-214	28	1.300	1.400
-215	30	1.400	1.500
-216	32	1.500	1.600
-217	34	1.600	1.700
-218	36	1.700	1.800
-219	38	1.800	1.900
-220	40	1.900	2.000
-221	42	2.000	2.100
-222	44	2.100	2.200
-223	46	2.200	2.300
-224	48	2.300	2.400
-225	50	2.400	2.500
-226	52	2.500	2.600
-227	54	2.600	2.700
-228	56	2.700	2.800
-229	58	2.800	2.900
-230	60	2.900	3.000
-231	62	3.000	3.100
-232	64	3.100	3.200
-233-	66	3.200	3.300
-234-	68	3.300	3.400
-235	70	3.400	3.500
-236	72	3.500	3.600
-237	74	3.600	3.700
-238	76	3.700	3.800
-239	78	3.800	3.900
900X-240-502	80	3.900	4.000

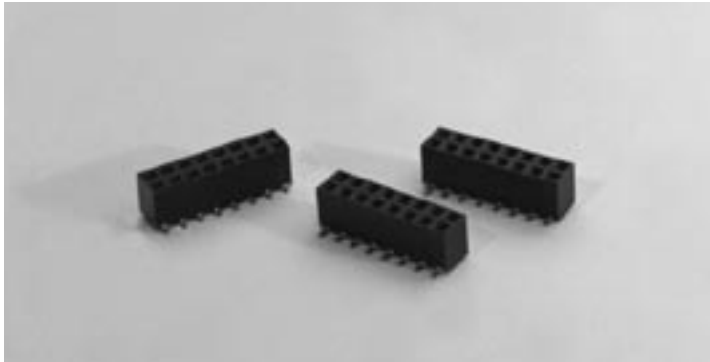


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

.100" (2.54mm) Low Profile Bottom Entry Surface Mount Dual Row Connectors



9000 SERIES "POST/BOXE"

PART NUMBER LEGEND

920X-4XX-501

NUMBER OF POSITIONS PER ROW

2 - 40

CONTACT FINISH

0 = TIN

8 = .000030 SELECTIVE GOLD

F = .000015 SELECTIVE GOLD

MATING HEADERS: 9100 SERIES

NOTES :

1) INSULATOR MATERIAL :

920X : POLYESTER (PCT), 30% GLASS FILLED, UL 94V-0; COLOR: BLACK.
CONTACT MATERIAL : PHOSPHOR BRONZE.

2) CONTACT FINISH :

92XQ : BRITE TIN PLATE

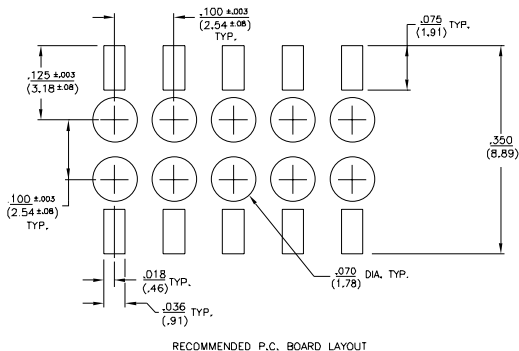
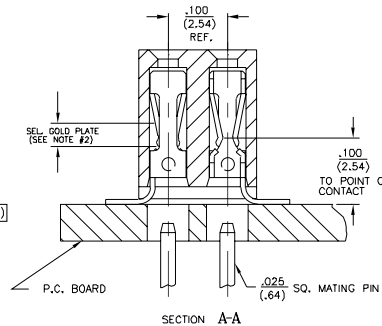
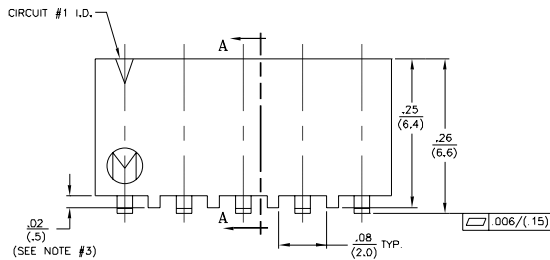
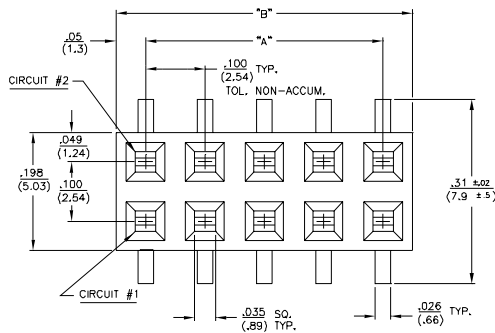
92XB : .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.

92XF : .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.

92XP : (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000030 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.

92XR : (POST-SHEAR PLATING) .000050 NICKEL PLATE ALL OVER; .000015 SEL. GOLD PLATING AS INDICATED; .0001-.0002 90/10 TIN/LEAD PLATING ON SOLDER TAIL.

3) END STANDOFFS ARE PRESENT ON P/N 92XX-402-501 ONLY. P/N 92XX-403-501 THRU 92XX-440-501 WILL NOT HAVE END STANDOFFS.



PART NO.	No. OF CIRCUITS	"DIM. A"	"DIM. B"
92XX-402-501	4	.100 (2.54)	.20 (5.1)
↑ -403- ↑	6	.200 (5.08)	.30 (7.6)
-404-	8	.300 (7.62)	.40 (10.2)
-405-	10	.400 (10.16)	.50 (12.7)
-406-	12	.500 (12.70)	.60 (15.2)
-407-	14	.600 (15.24)	.70 (17.8)
-408-	16	.700 (17.78)	.80 (20.3)
-409-	18	.800 (20.32)	.90 (22.9)
-410-	20	.900 (22.86)	1.00 (25.4)
-411-	22	1.000 (25.40)	1.10 (27.9)
-412-	24	1.100 (27.94)	1.20 (30.5)
-413-	26	1.200 (30.48)	1.30 (33.0)
-414-	28	1.300 (33.02)	1.40 (35.6)
-415-	30	1.400 (35.56)	1.50 (38.1)
-416-	32	1.500 (38.10)	1.60 (40.6)
-417-	34	1.600 (40.64)	1.70 (43.2)
-418-	36	1.700 (43.18)	1.80 (45.7)
-419-	38	1.800 (45.72)	1.90 (48.3)
-420-	40	1.900 (48.26)	2.00 (50.8)
-421-	42	2.000 (50.80)	2.10 (53.3)
-422-	44	2.100 (53.34)	2.20 (55.9)
-423-	46	2.200 (55.88)	2.30 (58.4)
-424-	48	2.300 (58.42)	2.40 (61.0)
-425-	50	2.400 (60.96)	2.50 (63.5)
-426-	52	2.500 (63.50)	2.60 (66.0)
-427-	54	2.600 (66.04)	2.70 (68.6)
-428-	56	2.700 (68.58)	2.80 (71.1)
-429-	58	2.800 (71.12)	2.90 (73.7)
-430-	60	2.900 (73.66)	3.00 (76.2)
-431-	62	3.000 (76.20)	3.10 (78.7)
-432-	64	3.100 (78.74)	3.20 (81.3)
-433-	66	3.200 (81.28)	3.30 (83.8)
-434-	68	3.300 (83.82)	3.40 (86.4)
-435-	70	3.400 (86.36)	3.50 (88.9)
-436-	72	3.500 (88.90)	3.60 (91.4)
-437-	74	3.600 (91.44)	3.70 (94.0)
-438-	76	3.700 (93.98)	3.80 (96.5)
-439- ↓	78	3.800 (96.52)	3.90 (99.1)
92XX-440-501	80	3.900 (99.06)	4.00 (101.6)



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

Methode Electronics Far East, Pte. Ltd.

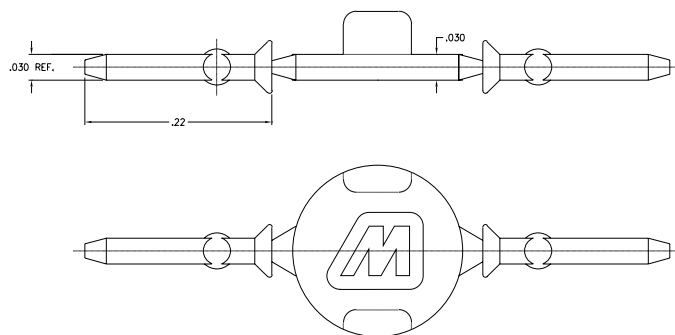
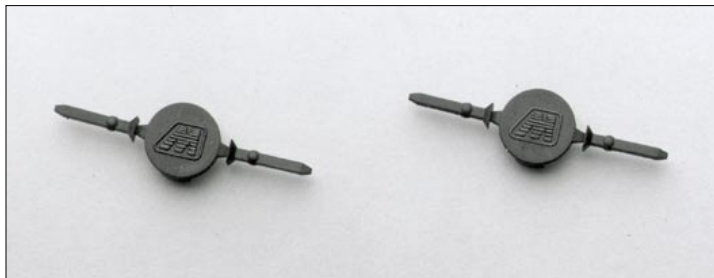
1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html



93X0 Polarizing Key



Material: 9310 - PBT
9320 - PCT

Color: Black

Mating Parts:

1. All 9300 Series Wire Receptacles
2. All 9000 Series Board Receptacles



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA
847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
+353 (0) 61 401222 • Fax: +353 (0) 61 401942
Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610
65-68615444 • Fax: 65-68614777
Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html



Specifications

“POST/BOXE”

9000, 9200, 9300, 9400 Series Wire to Board and Board to Board Connectors (.100” Centers)

TEST	PROCEDURE	RESULTS
INSULATION RESISTANCE	MIL STD 1344 METHOD 3003	5000 MΩ
CONTACT RESISTANCE @ 10 MILLIAMPS DC	MIL STD 1344 METHOD 3004	RC = 10 mΩ MAX
TEMPERATURE/ HUMIDITY	MIL STD 1344 METHOD 002, TYPE II TEST CONDITION "A"	RC = 25 mΩ MAX
CORROSIVE ATMOSPHERE	AMMONIUM SULFIDE PER EIA-364-61	RC = 25 mΩ MAX
THERMAL SHOCK	MIL STD 1344 METHOD 1003 TEST CONDITION "A"	RC = 25 mΩ MAX
CONNECTOR DURABILITY	MATING/ UNMATING CYCLES MIL STD 1344 METHOD 2016	RC = 25 mΩ MAX
MAX. WIRE INSULATION O.D.	9400-62X (CRIMP) 9400-61X (CRIMP) 930X (IDC)	.047 DIA. .062 DIA. .050 DIA.

Mechanical

Insulator Material: Glass filled polyester, UL rating 94V-0

Terminal Material: Copper alloy, post tin plated.
Additional platings available.

Insertion Force: Initial force to mate connectors. 10 oz.
(287 grams) per circuit maximum.

Withdrawal Force

Initial force. 2 oz. (57 grams) per circuit minimum.

Terminal Retention

Wire to Board (IDC & Crimp) Connectors:

Minimum retention in housing 5 lbs.

Termination Strength

Wire to Board (IDC & Crimp) Connectors:

Axial tensile strength may vary with type of wire:

Wire Gauge (AWG)	22	24	26	28	30
Average Pull (lbs.)	10	8	6	4	2

Pin Push Force (9100 Series Headers):

2 lbs (0.98 Kg min.)

Electrical

High Voltage Dielectric: 1500 V RMS for 60 seconds
between adjacent terminals

Rated Voltage: 250 VAC

Rated Current: 3 A

Temperature Rise: 30°C at rated current

Operating Temperature:

Wire to Board Connectors: -55°C to +105°C

Board to Board Connectors: -55° to +125°C

Wire Gauge Guide (Wire to Board IDC Connectors) :

All contacts use 7 strand PVC coated wire as a design basis.

Please use the following chart for recommendations when
other wire gauges are specified.

IDC

Contact Number Recommended Wire Gauges (PVC Insulation)

22	22 AWG 7 strand: 22 AWG 19 strand: 24 AWG solid
24	24 AWG 7 strand: 24 AWG 19 strand: 26 AWG solid
26	26 AWG 7 strand: 26 AWG 19 strand: 30 AWG solid
28	28 AWG 7 strand: 28 AWG 19 strand
30	30 AWG 7 strand

Agency Approvals:

UL Components Recognition File E-48567

Canadian Standards Association File 52212



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

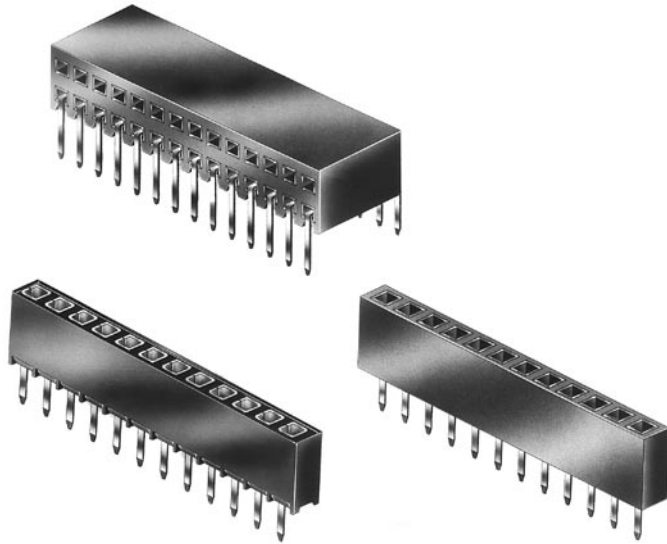
Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

Receptacle Strips Single and Dual Row .100" (2.54) Centerline - M65 Series



PART NUMBER LEGEND

M65X-RXXX-XX-XX

TAILS

- 01 = Through-hole
- 02 = SMT
- 03 = Through board with retention tails

HOUSING/CONTACT TYPE

- 01 = Vertical, Standard
- 11 = Parallel (right angle)
- 20 = Vertical, 4-sided contact
- 21 = Right angle, 3-sided contact
- 23 = Low profile, .216" height
- 24 = Bottom entry .100" x .150" tails
- 25 = Bottom entry .100" x .200" tails
- 26 = Bottom entry .100" x .300" tails
- 27 = Very low profile .138" height
- 28 = Very low profile .210" height

POSITIONS

- 01, 11 Types: 1-43 (single row), 2-80 (dual row)
- 20, 21 Types: 1-40 (single row), 4-80 (dual row)
- 23, 27, 28 Types: 1-36 (single row), 4-72 (dual row)
- 24, 25, 26 Types: 1-40 (single row), 6-80 (dual row)

NUMBER OF ROWS

- 1 = Single row
- 2 = Dual row

PLATING

- S = 5 µin nominal gold overall
- T = Selective gold flash
- 0 = Tin plating

SPECIFICATIONS:

Material:

Insulator: Polybutylene Terephthalate (PBT), glass reinforced thermoplastic, rated UL 94V-0

Contacts: Phosphor Bronze

Electrical:

Operation voltage: 250 VAC max

Current rating: 3 Amps max

Contact resistance: 20 mΩ max

Insulation resistance: 5000 MΩ min @ 1500 VDC between adjacent contacts (75°F and 50% R.H.)

Dielectric withstanding voltage: 1500 VAC min RMS (sea level)

Capacitance: 1.0 pF max between adjacent contacts

Mechanical:

Insertion force: 6 ozs. per contact max

Withdrawal force: 2 ozs. per contact max

Mating cycles: 250 cycles min

Contact retention in body: 3 lbs. min

Mating pin range: .022" sq. to .028" sq.

Insertion Depth: .080" to .250"

Environmental:

Operating temperature: -65°C to +125°C

MATING OPTIONS:

Headers: M65X-HXXX-XX-XX

PACKAGING:

Anti-static plastic trays available

APPROVALS AND CERTIFICATIONS:

Select parts recognized under the component program of Underwriters Laboratories, Inc. No. E167232

Certified by Canadian Standards Association No. LR75112



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

Receptacle Strips .100" (2.54) Centerline - M65 Series



**M65X-R1XX-01-01
STANDARD PROFILE**

PC Board Layout

$A = .100 [2.54] \times \text{No. of Positions}$
 $B = .100 [2.54] \times \text{No. of Spaces}$
 Mating Pin Length - .260 (6.60) Max

**M65X-R1XX-23-01
.216" PROFILE**

PC Board Layout

$A = .100 [2.54] \times \text{No. of Positions Per Row}$
 $B = .100 [2.54] \times \text{No. of Spaces}$
 Mating Pin Length - .150 (3.8) Max.





Receptacle Strips - M65 Series

**M65X-R1XX-20-01
FOUR-SIDED CONTACT**

PC Board Layout

A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces
Mating Pin Length - .236 (6.0) Max.

4 Sided Contact

**M65X-R1XX-27-01
.138" PROFILE**

PC Board Layout

A = .100" [2.54] x No. of Positions
B = .100" [2.54] x No. of Spaces

**M65X-R1XX-28-01
.210" PROFILE**

PC Board Layout

A = .100" [2.54] x No. of Positions Per Row
B = .100" [2.54] x No. of Spaces

Dual Wiping Contact



Receptacle Strips Standard Profile .100" (2.54) Centerline - M65 Series



**M65X-R1XX-11-01
PARALLEL MOUNT (RIGHT ANGLE)**

A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces

PC Board Layout

Dia .040 [1.02]

**M65X-R1XX-21-01
RIGHT ANGLE, 3-SIDED CONTACT**

A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces

PC Board Layout

Dia .038 [.97]

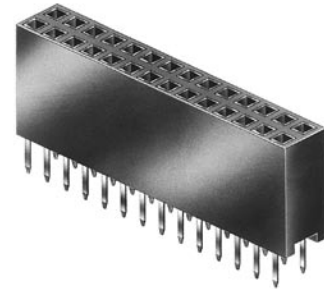
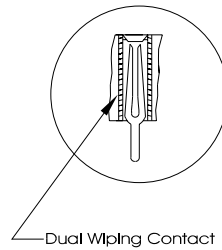
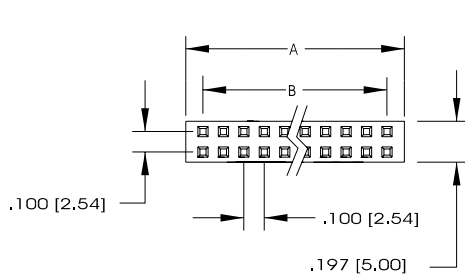
.310 [7.87]

.100 [2.54]

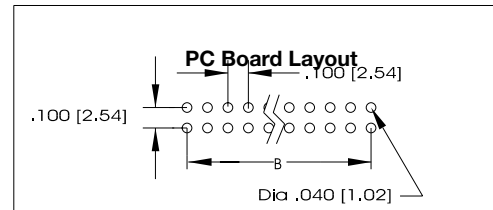
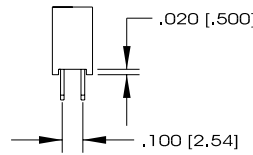
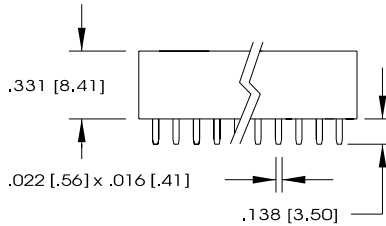


Receptacle Strips

.100" (2.54) Centerline - M65 Series

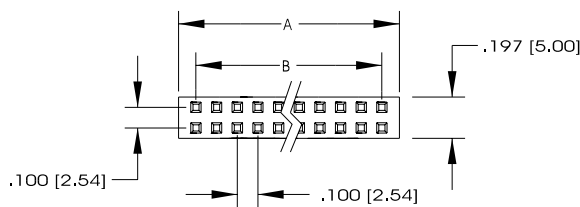


**M65X-R2XX-01-01
STANDARD PROFILE**

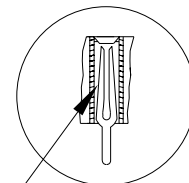
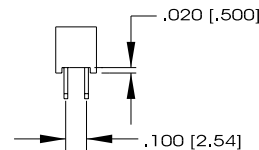
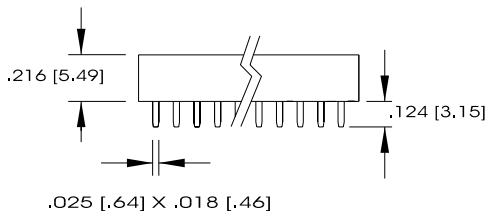
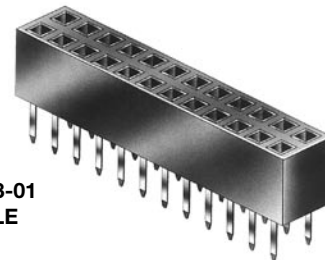


A = .100 [2.54] X No. of Positions Per Row
B = .100 [2.54] X No. of Spaces

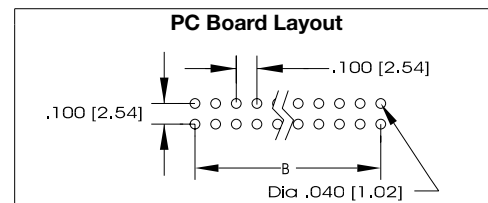
Mating Pin Length - .260 (6.60) Max



**M65X-R2XX-23-01
.216" PROFILE**



Dual Wiping Contact



A = .100 [2.54] X No. of Positions Per Row
B = .100 [2.54] X No. of Spaces

Mating Pin Length - .150 (3.8) Max.



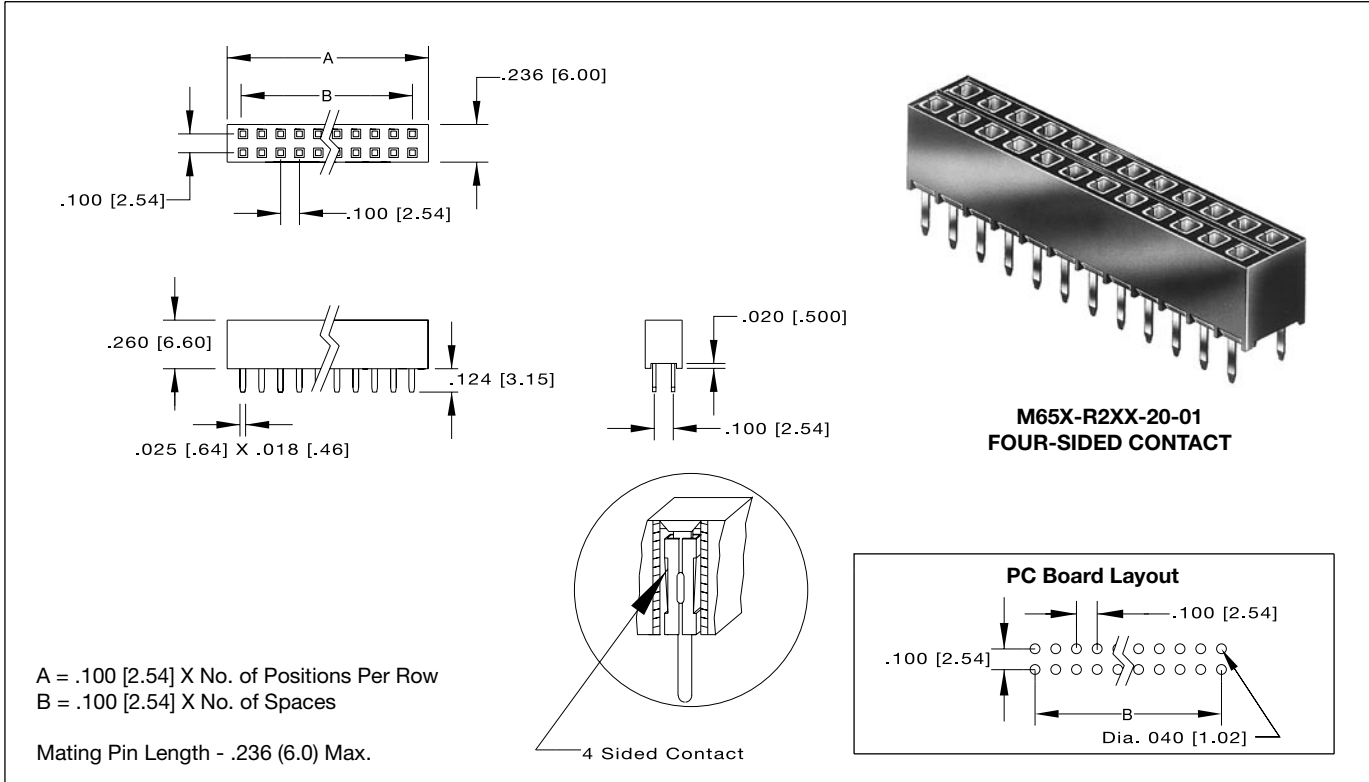
North and South America:
Methode Electronics, Inc. Connector Products
1700 Hicks Road • Rolling Meadows, IL 60008 USA
847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
+353 (0) 61 401222 • Fax: +353 (0) 61 401942
Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
1 Tuas Lane, Jurong Town • Singapore 638610
65-68615444 • Fax: 65-68614777
Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

Receptacle Strips

.100" (2.54) Centerline - M65 Series



North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

Receptacle Strips

.100" (2.54) Centerline - M65 Series



<p>A = .100 [2.54] X No. of Positions Per Row B = .100 [2.54] X No. of Spaces</p>	<p>3 Sided Contact</p> <p>.197 [5.00] .150 [3.81]</p>	<p>M65X-R2XX-24-01 BOTTOM ENTRY .100" X .150" TAIL</p> <p>PC Board Layout Dia .070 [1.81] .100 [2.54] .100 [2.54]</p>
<p>A = .100 [2.54] X No. of Positions Per Row B = .100 [2.54] X No. of Spaces</p>	<p>3 Sided Contact</p> <p>.197 [5.00] .200 [5.08]</p>	<p>M65X-R2XX-25-01 BOTTOM ENTRY .100" X .200" TAIL</p> <p>PC Board Layout Dia .031 [.80] .100 [2.54] .100 [2.54] .200 [5.08] Dia .035 [.90]</p>
<p>A = .100 [2.54] X No. of Positions Per Row B = .100 [2.54] X No. of Spaces</p>	<p>3 Sided Contact</p> <p>.197 [5.00] .300 [7.62]</p>	<p>M65X-R2XX-26-01 BOTTOM ENTRY .100" X .300" TAIL</p> <p>PC Board Layout Dia .031 [.80] .100 [2.54] .100 [2.54] Dia .035 [.90]</p>



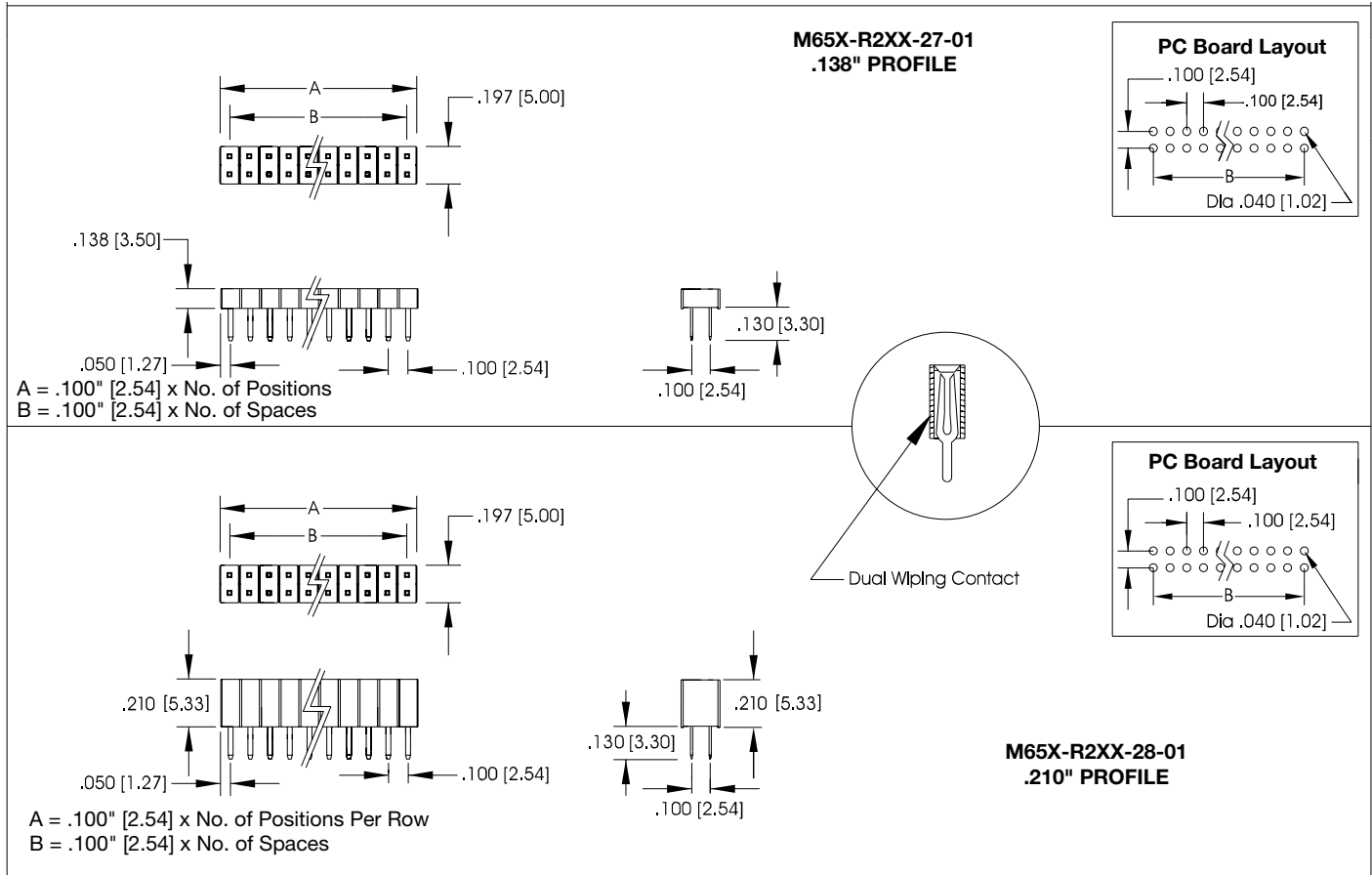
North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

Receptacle Strips

.100" [2.54] Centerline - M65 Series



North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

Receptacle Strips

.100" (2.54) Centerline - M65 Series



**M65X-R2XX-11-01
PARALLEL MOUNT (RIGHT ANGLE)**

A = .100 [2.54] X No. of Positions per row
B = .100 [2.54] X No. of Spaces

PC Board Layout

Diagrams show dimensions: .100 [2.54], .197 [5.00], .331 [8.41], .022 [.56] x .016 [.41], .063 [1.60], .020 [.50], .130 [3.30], and .100 [2.54].

Inset: Dual Wiping Contact

PC Board Layout: .100 [2.54], Dia. .040 [1.02]

**M65X-R2XX-21-01
RIGHT ANGLE, 3-SIDED CONTACT**

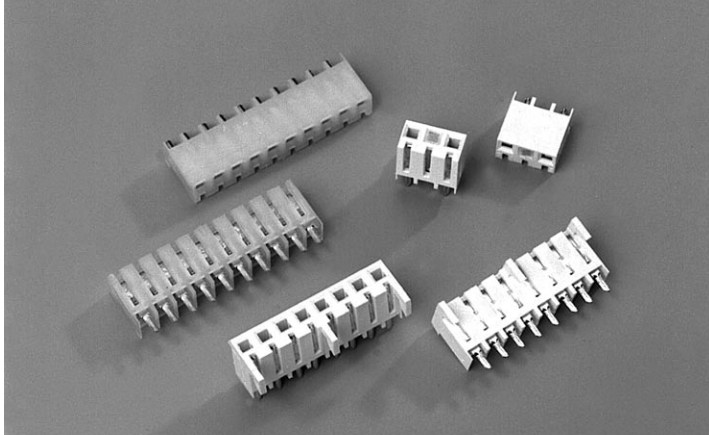
A = .100 [2.54] X No. of Positions Per Row
B = .100 [2.54] X No. of Spaces

PC Board Layout

Diagrams show dimensions: .235 [5.97], .100 [2.54], .030 [.762] x .010 [.250], .110 [2.79], .310 [7.87], .120 [3.05], and .100 [2.54].

PC Board Layout: Dia. .038 [.97], .310 [7.87], .100 [2.54]

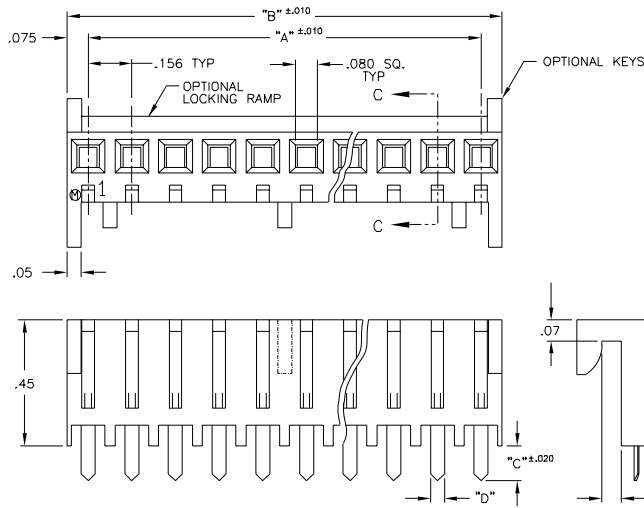
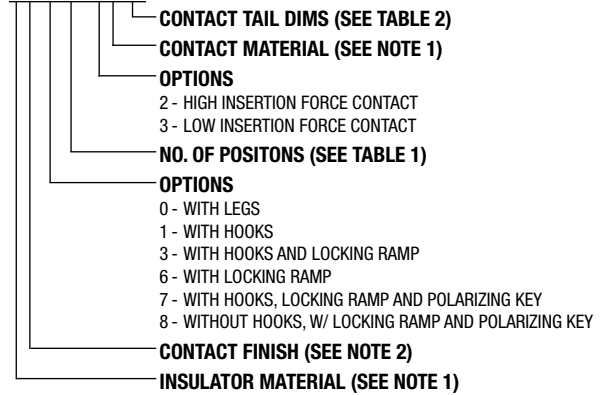
.156" (3.96mm) Through Hole Vertical Mount Connector



3000 SERIES "TERMACON"

PART NUMBER LEGEND

30XX-XXX-XXXX



MATING HEADERS: 3100 SERIES

NOTES:

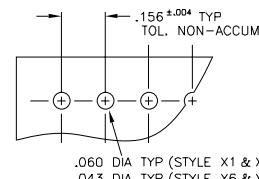
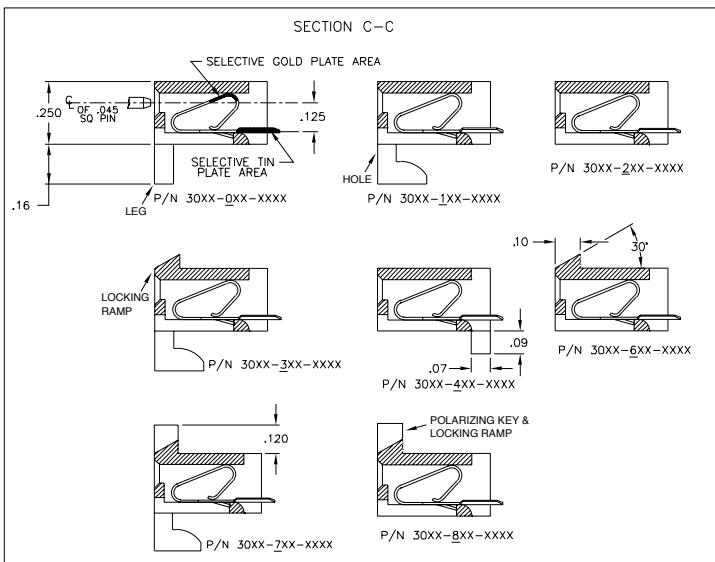
- INSULATOR MATERIAL - 300X-XXX-XXXX: NYLON 6/6, UL 94V-2
COLOR: NATURAL
306X-XXX-XXXX: NYLON 6/6, UL 94V-0
COLOR: NATURAL
307X-XXX-XXXX: POLYESTER - PBT 15% G.R. UL 94V-0
COLOR: NATURAL
309X-XXX-XXXX: POLYESTER - PCT 30% G.R. UL 94V-0
COLOR: BLACK
CONTACT MATERIAL - 30XX-XXX-X0XX: PHOSPHOR BRONZE
30XX-XXX-X1XX: 70/30 BRASS
- CONTACT FINISH:
30X0 - .0001/.0002 BRITE TIN OVER .0001 MIN COPPER PLATE (206)
30XE - TIN/LEAD OVER NICKEL PLATE (405)
30X2 - .000015 GOLD PLATE OVER .000050 NICKEL PLATE (.002)
30XB - .000020 MIN SELECTIVE GOLD PLATE OVER .000050 NICKEL PLATE ALL OVER; .0002 SELECTIVE TIN PLATE AS INDICATED (B02)
30XF - .000030 SELECTIVE GOLD PLATE OVER .000050 NICKEL PLATE ALL OVER; .0002 SELECTIVE TIN PLATE AS INDICATED (B17)

TABLE 2

PART NO.	DIM "C"	DIM "D"
30XX-XXX-XX01	.125	.050
30XX-XXX-XX02	.165 +/- .02	.050
30XX-XXX-XX06	.125	.033
30XX-XXX-XX07	.165 +/- .02	.033

TABLE 1

PART NO.	NO. OF POS	DIM "A"	DIM "B"
30XX-X02-XXXX	2	.156	.306
-X03-	3	.312	.462
-X04-	4	.468	.618
-X05-	5	.624	.774
-X06-	6	.780	.930
-X07-	7	.936	1.086
-X08-	8	1.092	1.242
-X09-	9	1.248	1.398
-X10-	10	1.404	1.554
-X11-	11	1.560	1.710
-X12-	12	1.716	1.866
-X13-	13	1.872	2.022
-X14-	14	2.028	2.178
30XX-X15-XXXX	15	2.184	2.334



RECOMMENDED P.C. BOARD LAYOUT

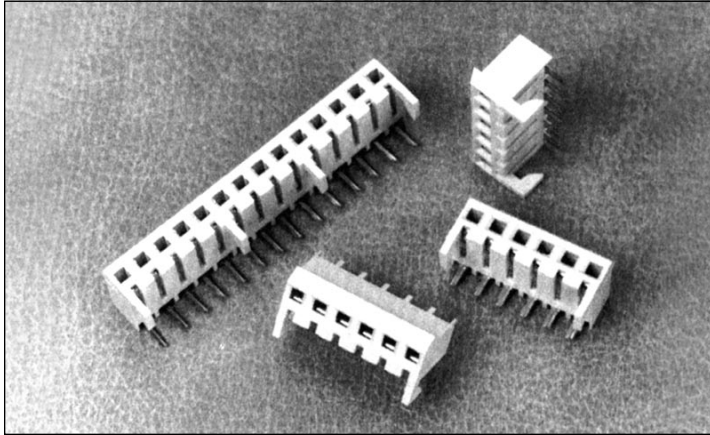


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysion Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

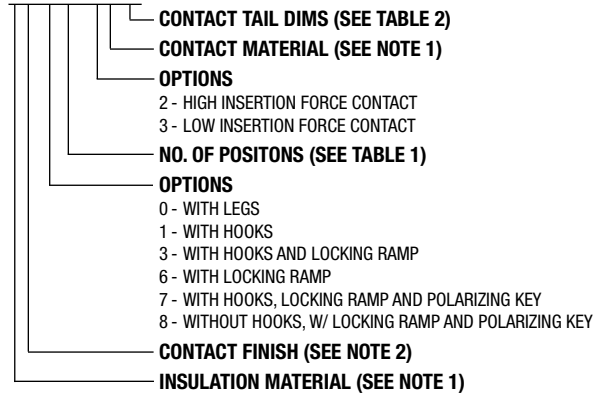
.156" (3.96mm) Through Hole Right Angle Connector



3000 SERIES "TERMACON"

PART NUMBER LEGEND

30XX-XXX-XXXX



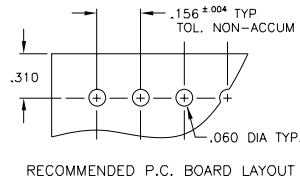
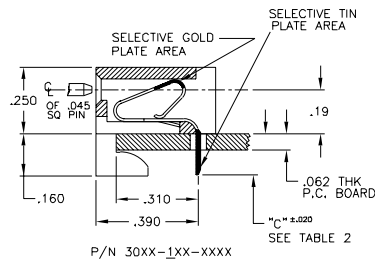
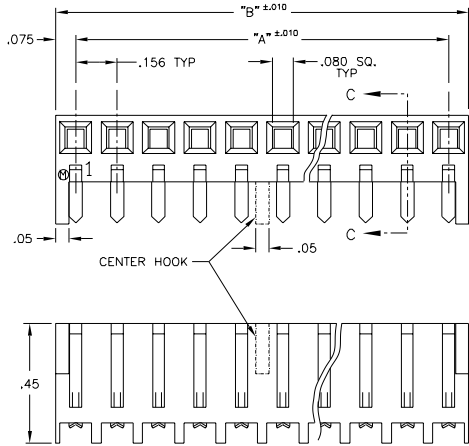
NOTES:

- 1) INSULATOR MATERIAL - 300X-XXX-XXXX: NYLON 6/6, UL 94V-2
 COLOR: NATURAL
 306X-XXX-XXXX: NYLON 6/6, UL 94V-0
 COLOR: NATURAL
 307X-XXX-XXXX: POLYESTER - PBT 15% G.R., UL 94V-0
 COLOR: NATURAL
 309X-XXX-XXXX: POLYESTER - PCT 30% G.R., UL 94V-0
 COLOR: BLACK
- CONTACT MATERIAL - 30XX-XXX-X0XX: PHOSPHOR BRONZE
 30XX-XXX-X1XX: 70/30 BRASS

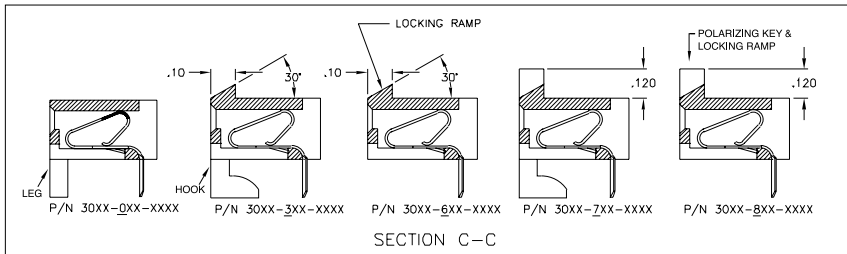
2) CONTACT FINISH:

- 30X0 - .0001/.0002 BRITE TIN OVER .0001 MIN COPPER PLATE (206)
 30XE - TIN/LEAD OVER NICKEL PLATE (405)
 30X2 - .000015 GOLD PLATE OVER .000050 NICKEL PLATE (002)
 30XB - .000020 MIN SELECTIVE GOLD PLATE OVER .000050 NICKEL
 PLATE ALL OVER; .0002 SELECTIVE TIN PLATE AS INDICATED (802)
 30XF - .000030 SELECTIVE GOLD PLATE OVER .000050 NICKEL
 PLATE ALL OVER; .0002 SELECTIVE TIN PLATE AS INDICATED (817)

MATING HEADERS: 3100 SERIES



PART NO.	HOOK BETWEEN CIRCUITS	NO. OF POS	DIM "A"	DIM "B"
30XX-X02-XXXX		2	.156	.306
-X03-		3	.312	.462
-X04-		4	.468	.618
-X05-		5	.624	.774
-X06-		6	.780	.930
-X07-		7	.936	1.086
-X08-	4 + 5	8	1.092	1.242
-X09-	4 + 5	9	1.248	1.398
-X10-	5 + 6	10	1.404	1.554
-X11-	5 + 6	11	1.560	1.710
-X12-	4 + 5; 8 + 9	12	1.716	1.866
-X13-	4 + 5; 8 + 9	13	1.872	2.022
-X14-	5 + 6; 10 + 11	14	2.028	2.178
-X15-	5 + 6; 10 + 11	15	2.184	2.334
-X16-	5 + 6; 10 + 11	16	2.340	2.490
-X17-	6 + 7; 12 + 13	17	2.496	2.646
-X18-	6 + 7; 12 + 13	18	2.652	2.802
-X19-	6 + 7; 12 + 13	19	2.808	2.958
-X20-	7 + 8; 15 + 16	20	2.964	3.114
-X21-	7 + 8; 15 + 16	21	3.120	3.270
-X22-	7 + 8; 15 + 16	22	3.276	3.426
-X23-	8 + 9; 17 + 18	23	3.432	3.582
30XX-X24-XXXX	8 + 9; 17 + 18	24	3.588	3.738



PART NO.	DIM "C"
30XX-XXX-XX03	.156
30XX-XXX-XX04	.218

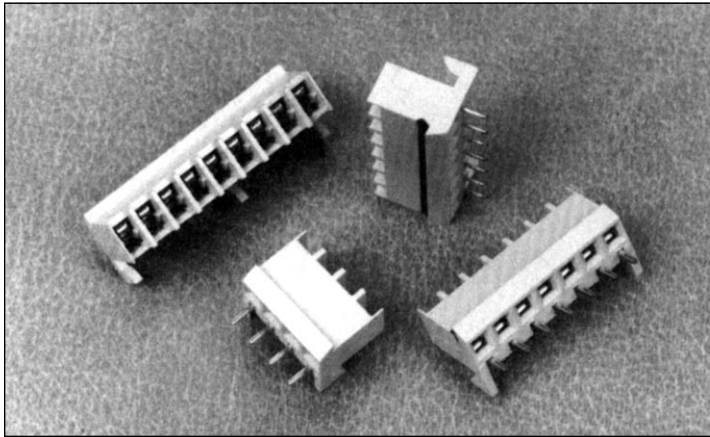


North and South America:
Methode Electronics, Inc. Connector Products
 1700 Hicks Road • Rolling Meadows, IL 60008 USA
 847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404
 Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:
Methode Electronics Ireland, Ltd.
 Unit H, Crossagalla Business Park, Ballysion Rd. • Limerick, Ireland
 +353 (0) 61 401222 • Fax: +353 (0) 61 401942
 Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:
Methode Electronics Far East, Pte. Ltd.
 1 Tuas Lane, Jurong Town • Singapore 638610
 65-68615444 • Fax: 65-68614777
 Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html

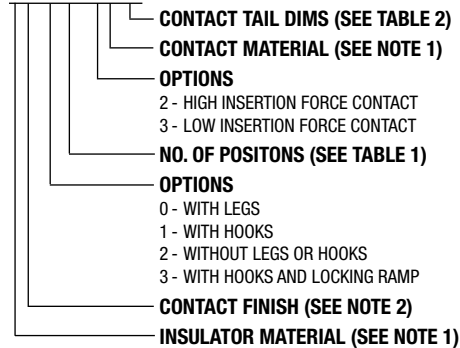
.156" (3.96mm) Through Hole Bottom Entry Connector



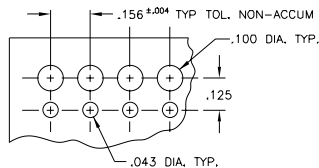
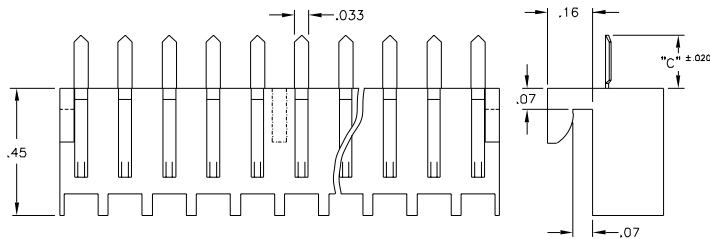
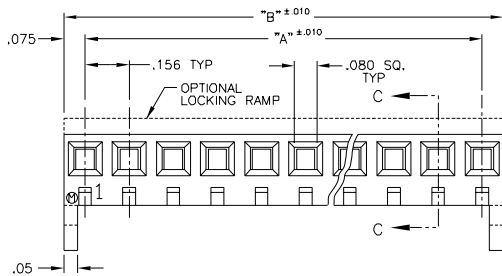
3000 SERIES "TERMACON"

PART NUMBER LEGEND

30XX-XXX-XXXX



MATING HEADERS: 3100 SERIES



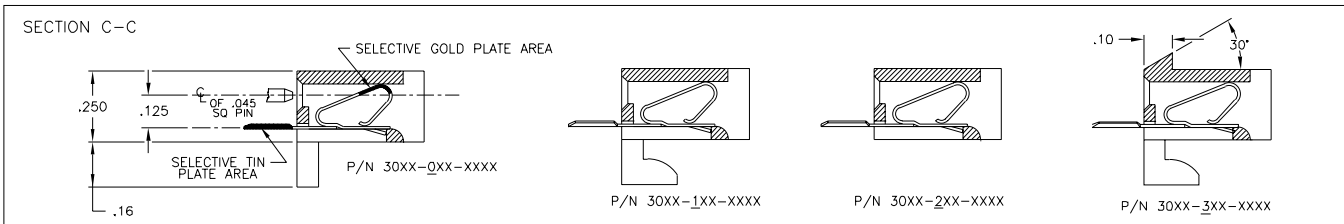
RECOMMENDED P.C. BOARD LAYOUT

NOTES:

- INSULATOR MATERIAL - 30QX-XXX-XXXX: NYLON 6/6, UL 94V-2 COLOR: NATURAL
30EX-XXX-XXXX: NYLON 6/6, UL 94V-0 COLOR: NATURAL
30ZX-XXX-XXXX: POLYESTER - PBT 15% G.R. (PBT-006) UL 94V-0 COLOR: NATURAL
30QX-XXX-XXXX: POLYESTER - PCT 30% G.R. (PCT-002) UL 94V-0 COLOR: BLACK
CONTACT MATERIAL - 30XX-XXX-QQXX: PHOSPHOR BRONZE
30XX-XXX-XJXX: 70/30 BRASS
- CONTACT FINISH:
30XQ - .0001/.0002 BRITE TIN OVER .0001 MIN COPPER PLATE (206)
30XE - TIN/LEAD OVER NICKEL PLATE (405)
30XZ - .000015 GOLD PLATE OVER .000050 NICKEL PLATE (002)
30XB - .000020 MIN SELECTIVE GOLD PLATE OVER .000050 NICKEL PLATE ALL OVER; .0002 SELECTIVE TIN PLATE AS INDICATED (802)
30XF - .000030 SELECTIVE GOLD PLATE OVER .000050 NICKEL PLATE ALL OVER; .0002 SELECTIVE TIN PLATE AS INDICATED (817)

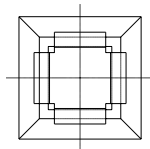
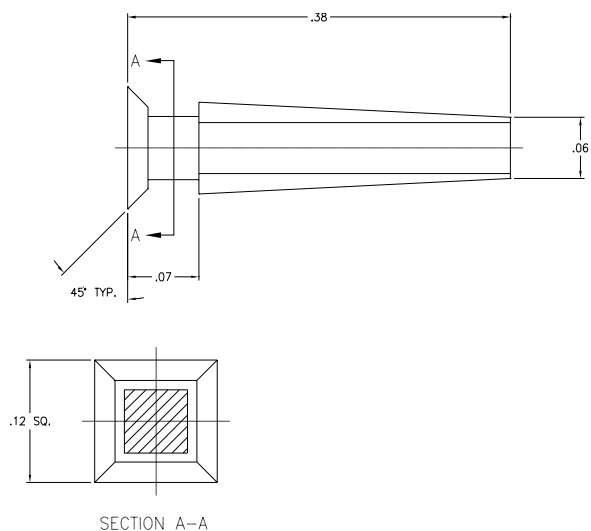
PART NO.	DIM "C"
30XX-XXX-XX05	.156
30XX-XXX-XX10	.188
30XX-XXX-XX11	.203

PART NO.	NO. OF POS	DIM "A"	DIM "B"
30XX-X02-XXXX	2	.156	.306
X03-	3	.312	.462
X04-	4	.468	.618
X05-	5	.624	.774
X06-	6	.780	.930
X07-	7	.936	1.086
X08-	8	1.092	1.242
X09-	9	1.248	1.398
X10-	10	1.404	1.554
X11-	11	1.560	1.710
X12-	12	1.716	1.866
X13-	13	1.872	2.022
X14-	14	2.028	2.178
30XX-X15-XXXX	15	2.184	2.334





3310 Polarizing Key



Material: Nylon

Color: Natural

Mating Parts:

1. All 3300-XXX-4XX IDC Receptacles
2. 3300-XXX Crimp Receptacles
3. All 3300 Series Board Receptacles



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html



Specifications

“TERMACON”. Single Point Contact Connectors 3000, and 3500 Series Receptacles/Headers and Card Edge Connectors (.156” Centers)

Mechanical

3000 Series

.156” (3.96mm)

Insulator Housing: Thermoplastic 94V-0 rated

Contact Material: Copper alloy tin plated

Insertion Force: Initial force to mate with .045 sq. or round pin - 2 lbs. max per circuit

Withdrawal Force: 2 oz. min. per circuit

Pin Push Out (Headers): 3 lbs. min.

Electrical

High Voltage Dielectric: 1500 V RMS for 60 seconds between adjacent terminals

Rated Voltage: 250 VAC

Current: .156" centers, 7 A max.

Temperature Rise: 30°C at rated current

Terminal Resistance: measured across a mated terminal pair .156 centers, 5 mV at 1 amp

Ambient Temperature: -40°C to +105°C

Insulation Resistance: 500K MΩ min. between adjacent contacts at 75°F and 50% RH

Humidity (MIL-STD-202E): after MIL-202E test has been performed on mated terminal parts, maximum mV drop should be two times the original mV reading prior to test or .156 center, 16 mV at 1amp;

Notes

Underwriters Laboratories Component Recognition File E-48567

Canadian Standards File 52212



North and South America:

Methode Electronics, Inc. Connector Products

1700 Hicks Road • Rolling Meadows, IL 60008 USA

847-392-3500 • Toll Free: 800-323-6864 • Fax: 847-392-9404

Email: info@methode.com • Web: www.methode.com/connector/index.html

Europe:

Methode Electronics Ireland, Ltd.

Unit H, Crossagalla Business Park, Ballysimon Rd. • Limerick, Ireland

+353 (0) 61 401222 • Fax: +353 (0) 61 401942

Email: info@methode.ie • Web: ireland.methode.com/main.html

Far East:

Methode Electronics Far East, Pte. Ltd.

1 Tuas Lane, Jurong Town • Singapore 638610

65-68615444 • Fax: 65-68614777

Email: sales@methode.com.sg • Web: www.methode.com/mefe/index.html