PART NUMBER
SEE SHEET-2 TABLE

SHOWN WITH SHAFT
AT 50% ROTATION

(Dimensioned mechanical views)

2 — CENTER (C)
.062±.005 [1.57±0.13]
.200±.005 [5.08±0.13]
3 — RIGHT (R)
1 — LEFT (L)
.200±.005 [5.08±0.13]

.656 MAX [16.66]
.484±.016 [12.29±0.41]
.025 MAX [0.64]
(3X .088) [2.24] TYP
C ±.031 [±0.79]
D ±.016 [±0.41]
A +.010 -.000 [+0.25] [-0.00]
Ø.125±.001 [3.18±0.02]
45° X .012 [0.3]
1/4-32 NEF-2A
MOUNTING SURFACE
MARKING SURFACE
.234 MAX
2X .031±.016 [0.79±0.41]

RV6LAY$AXXXX
392CX XXXXΩ
20 YYWW
MEXICO

DATE CODE
YY IS LAST 2 DIGITS OF YEAR
WW IS WEEK NUMBER

Ø.515±.016 [13.08±0.41]
B ±.005 [±0.13] SLOTTED
(.080) [2.03] TYP
CLAROSTAT
45°±1/2°
LOCATING PIN #1
(90°)
LOCATING PIN #2
R.040±.002 [1.02±0.05] (FROM Ø.515) 2 PLS
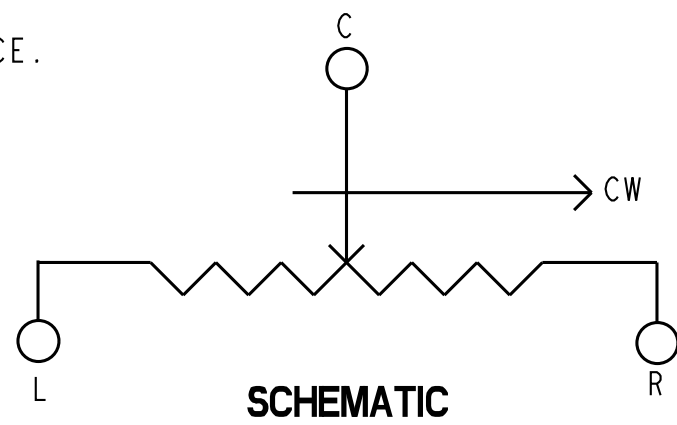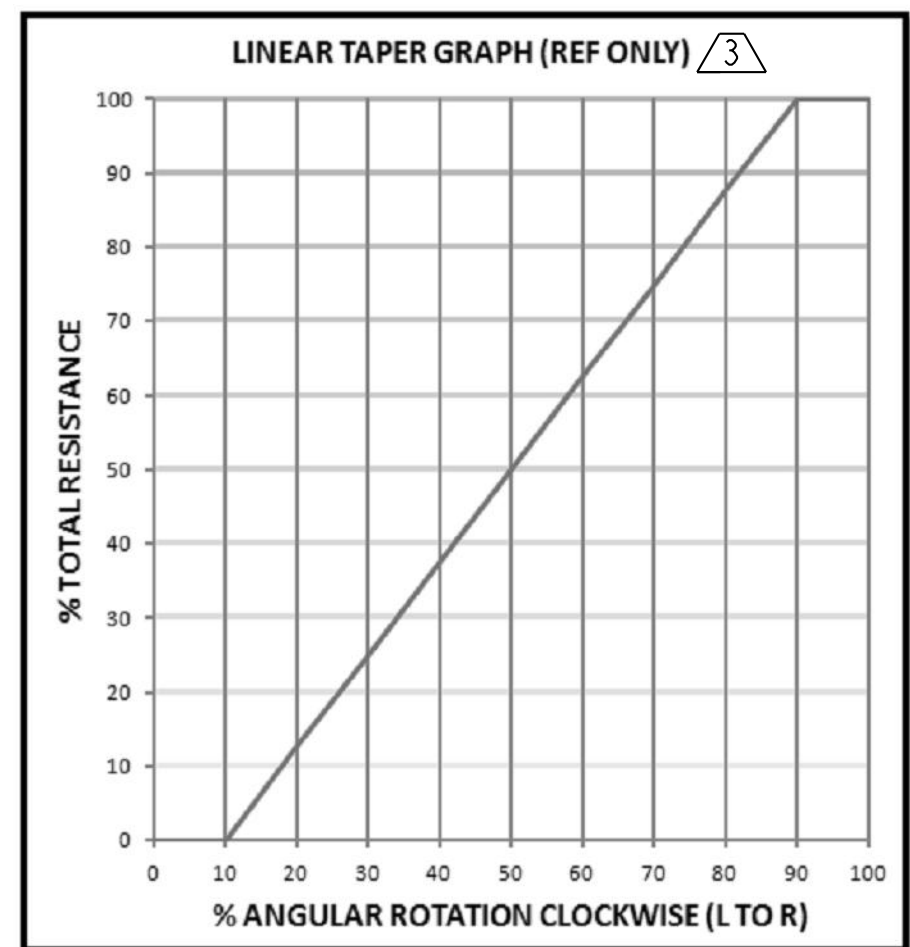OUTSIDE OF LOCATING PINS MAY BE FLAT
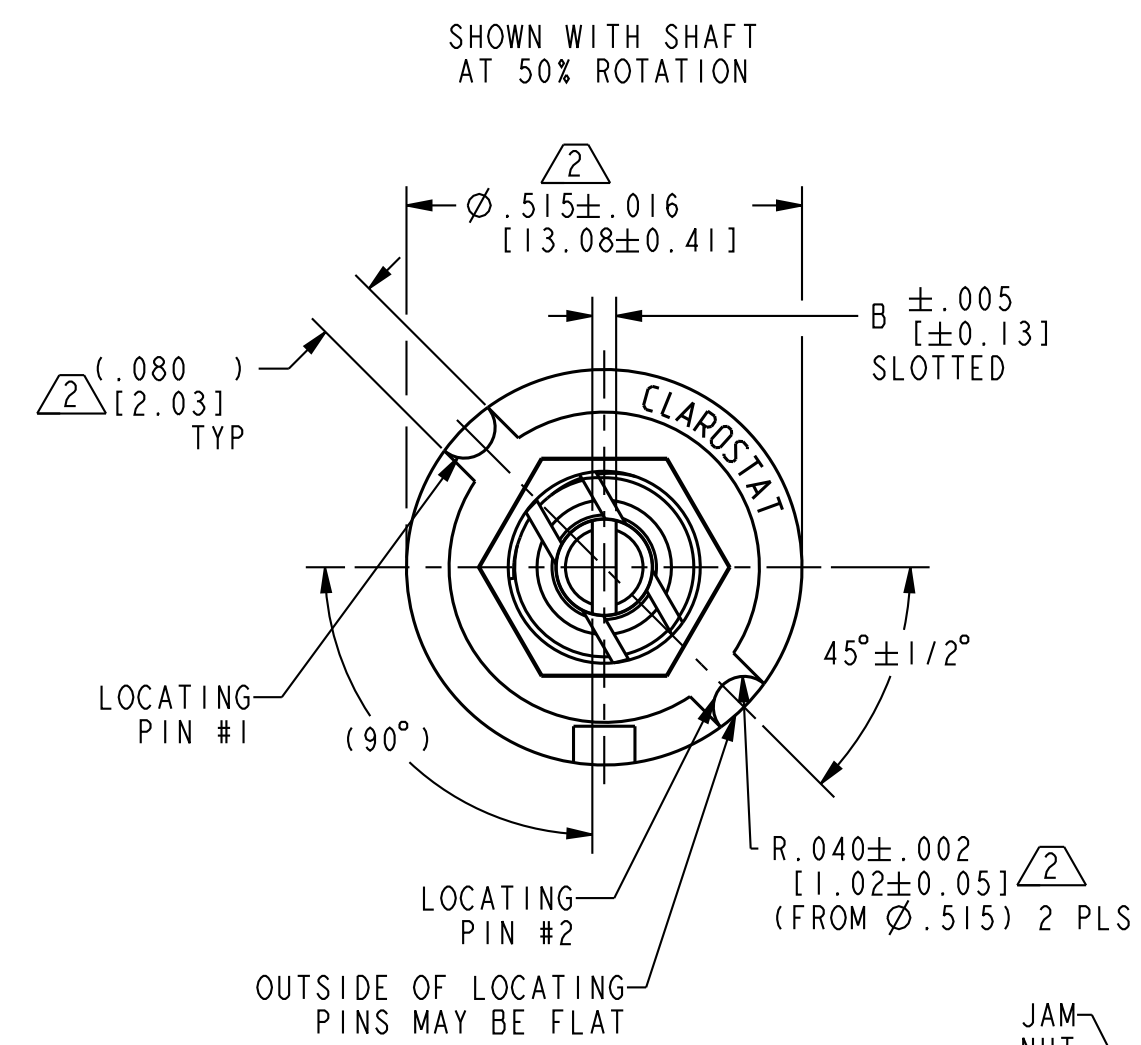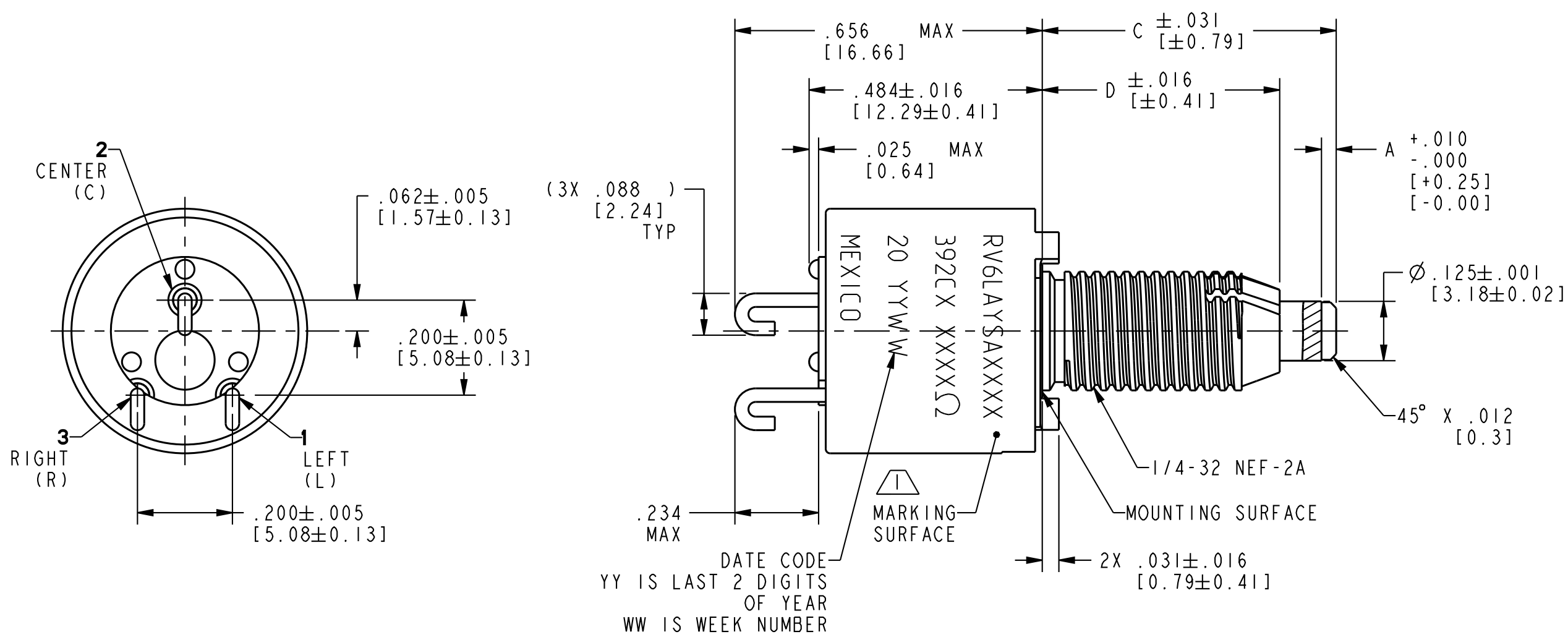
GENERAL SPECIFICATIONS AND NOTES:

SERIES: 392
CONDUCTIVE PLASTIC ELEMENT
SUPPLIED WITH MOUNTING NUT, LOCKING WASHER AND JAM NUT.
NUTS AND WASHER PACKAGED ASSEMBLED OR UNASSEMBLED BASED ON LISTING
(REFER TO TABLE ON SHEET2).
1 MARKING INFORMATION SHOWN ON SIDE OF HOUSING.
REFER TO TABLE FOR SPECIFIC LISTING MARKING INFORMATION.
WEIGHT OF SINGLE CONTROL: .25 OUNCE [6.8 GRAMS] APPROX.
VALUES ARE SHOWN IN STANDARD AND METRIC UNITS. METRIC UNITS ARE IN [ ].
IF CONVERSION DIFFERENCE EXISTS, THE STANDARD UNIT PREVAILS.
CONTROLS HAVE AN INTERNAL O-RING SHAFT SEAL.
UNITS ARE SEALED FOR WAVE SOLDER AND WASH PROCESSING.
BUILT IN ACCORDANCE WITH MIL-R-94.
2 DIMENSIONS FOR BODY DIAMETER AND LOCATING PINS DEVIATE FROM MIL-R-94 SPECIFICATIONS.
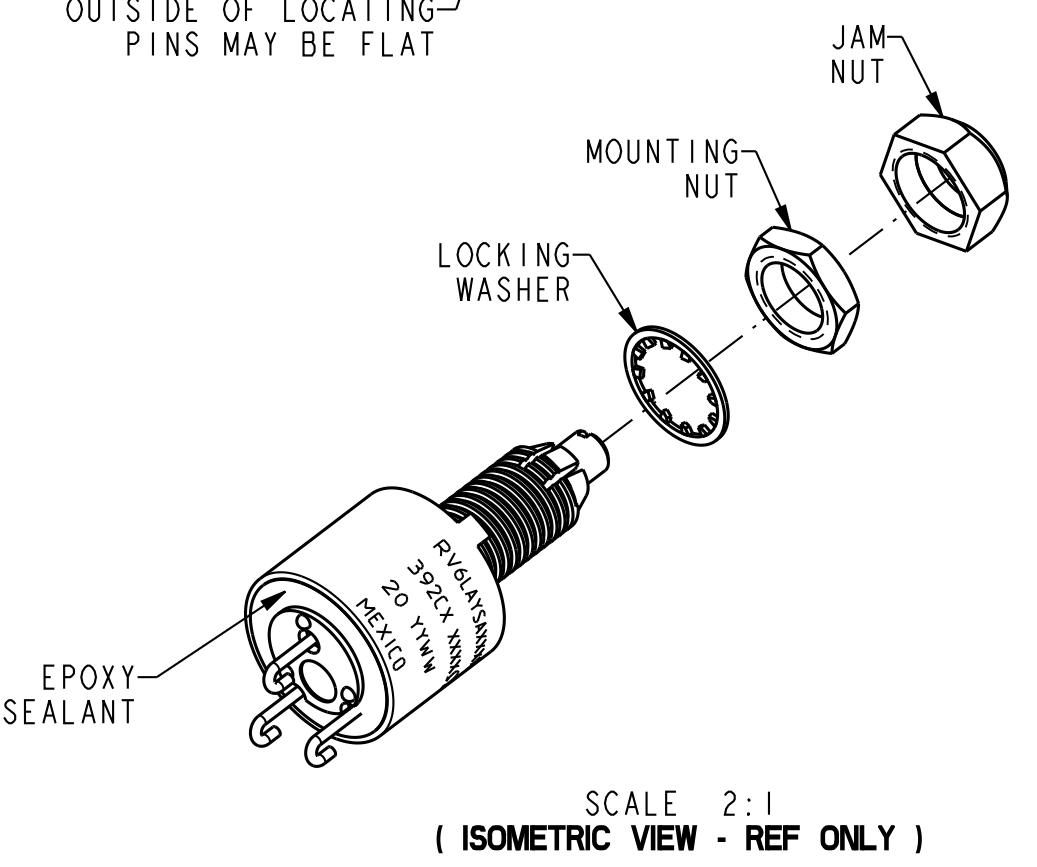
ELECTRICAL SPECIFICATIONS:

3 TAPER: LINEAR
TAPER TOLERANCE ±20% OF NOMINAL RESISTANCE AT 50%±3% MECHANICAL ROTATION.
LINEARITY (INDEPENDENT): ±5%
MAX WORKING VOLTAGE: 350 VDC APPLIED ACROSS L & R TERMINALS. POWER NOT TO EXCEED RATING.
DIELECTRIC STRENGTH: 750 VAC FOR 60s @ ATM [1 MPa]
350 VAC FOR 60s @ 3.4 IN Hg ([1.5 KPa]
POWER RATING: 0.5W @ 158°F [70°C], DE-RATED LINEARLY TO 0 @ 264°F [129°C]
CRV FOR RESISTANCE GREATER THAN 500Ω AND LESS THAN 50KΩ IS 1.5% OF TOTAL
RESISTANCE. CRV FOR ALL OTHER RESISTANCE VALUES IS 3.1% OF TOTAL RESISTANCE.
END RESISTANCE: 4Ω MAX AT EACH END OF ROTATION
RESISTANCE AND TOLERANCE: (REFER TO TABLE)
ELECTRICAL ROTATION: 295°± 5°
EFFECTIVE ELECTRICAL ROTATION: 265° TYPICAL

OPERATIONAL SPECIFICATIONS:

ROTATIONAL LIFE: 50,000 CYCLES
STORAGE TEMPERATURE: -67°F [-55°C] TO 248°F [120°C]
OPERATING TEMPERATURE: -40°F [-40°C] TO 248°F [120°C]
ROTATIONAL TORQUE: 0.5 TO 2.0 OZ-IN [3.5 TO 14 mN·m]
WITH JAM NUT TIGHTENED TO .8 LB-IN [0.9 Nm] SHAFT WILL NOT ROTATE
UNTIL 20 LB-IN [2.3 Nm] IS APPLIED.
STOP TORQUE: 3 LB-IN [0.34 N·m]
MECHANICAL ROTATION: 295°± 5°

LINEAR TAPER GRAPH (REF ONLY) 3

Y-axis: % TOTAL RESISTANCE (0 to 100)
X-axis: % ANGULAR ROTATION CLOCKWISE (L TO R) (0 to 100)

MOUNTING NUT
JAM NUT
LOCKING WASHER
EPOXY SEALANT

RV6LAY$AXXXX
392CX XXXXΩ
20 YYWW
MEXICO

SCALE 2:1
(ISOMETRIC VIEW - REF ONLY)

MATERIALS	
SHAFT	NICKEL PLATED BRASS
BUSHING	NICKEL PLATED BRASS
HOUSING	THERMOPLASTIC
BASE	THERMOSET
TERMINALS	BRASS, SOLDER (TIN-LEAD) DIP FINISH
SEALANT	EPOXY
LOCK WASHER	NICKEL PLATED PHOS BRONZE
MOUNTING NUT	NICKEL PLATED BRASS
JAM NUT	NICKEL PLATED BRASS

SCHEMATIC

C
CW
L
R

| LISTING | CHARACTERISTICS | | | | | | | MARKING △ | | | |
| | ELECTRICAL | | MECHANICAL | | | | | | | | |
	RES (Ω)	RES TOL	A SLOT DEPTH IN [mm]	B SLOT WIDTH IN [mm]	C SHAFT LENGTH IN [mm]	D BUSHNG LENGTH IN [mm]	MTG HARDWARE	LINE-1	LINE-2	LINE-3	LINE-4
392C2100	100Ω	±10%	.031 [0.79]	.031 [0.79]	.625 [15.88]	.500 [12.70]	ASSEMBLED	RV6LAYSA101A	392C2 100Ω	20 YYWW	MEXICO
392C21K	1KΩ	±10%	.031 [0.79]	.031 [0.79]	.625 [15.88]	.500 [12.70]	ASSEMBLED	RV6LAYSA102A	392C2 1KΩ	20 YYWW	MEXICO
392550M6875	10KΩ	±10%	.031 [0.79]	.031 [0.79]	.625 [15.88]	.500 [12.70]	ASSEMBLED	RV6LAYSA103A	10KΩ	20 YYWW	MEXICO
392C210K	10KΩ	±10%	.031 [0.79]	.031 [0.79]	.625 [15.88]	.500 [12.70]	ASSEMBLED	RV6LAYSA103A	392C2 10KΩ	20 YYWW	MEXICO
392C2100K	100KΩ	±10%	.031 [0.79]	.031 [0.79]	.625 [15.88]	.500 [12.70]	ASSEMBLED	RV6LAYSA104A	392CS 100KΩ	20 YYWW	MEXICO
392C21MEG	1MEGΩ	±10%	.031 [0.79]	.031 [0.79]	.625 [15.88]	.500 [12.70]	ASSEMBLED	RV6LAYSA105A	392C2 1MEGΩ	20 YYWW	MEXICO
392C2250	250Ω	±10%	.031 [0.79]	.031 [0.79]	.625 [15.88]	.500 [12.70]	ASSEMBLED	RV6LAYSA251A	392C2 250Ω	20 YYWW	MEXICO
392C22500	2.5KΩ	±10%	.031 [0.79]	.031 [0.79]	.625 [15.88]	.500 [12.70]	ASSEMBLED	RV6LAYSA252A	392C2 2.5KΩ	20 YYWW	MEXICO
392C225K	25KΩ	±10%	.031 [0.79]	.031 [0.79]	.625 [15.88]	.500 [12.70]	ASSEMBLED	RV6LAYSA253A	392CS 25KΩ	20 YYWW	MEXICO
392C2500	500Ω	±10%	.031 [0.79]	.031 [0.79]	.625 [15.88]	.500 [12.70]	ASSEMBLED	RV6LAYSA501A	392CS 500Ω	20 YYWW	MEXICO
392C25K	5KΩ	±10%	.031 [0.79]	.031 [0.79]	.625 [15.88]	.500 [12.70]	ASSEMBLED	RV6LAYSA502A	392C2 5KΩ	20 YYWW	MEXICO
392C250K	50KΩ	±10%	.031 [0.79]	.031 [0.79]	.625 [15.88]	.500 [12.70]	ASSEMBLED	RV6LAYSA503A	392C2 50KΩ	20 YYWW	MEXICO
392C2500K	500KΩ	±10%	.031 [0.79]	.031 [0.79]	.625 [15.88]	.500 [12.70]	ASSEMBLED	RV6LAYSA504A	392CS 500KΩ	20 YYWW	MEXICO
392550M9297	5MEGΩ	±20%	.031 [0.79]	.031 [0.79]	.625 [15.88]	.500 [12.70]	UNASSEMBLED	RV6LAYSA505B	392C2 5MEGΩ	20 YYWW	MEXICO

Honeywell

TITLE: S-TAPER, SLOTTED SHAFT, LCKG BUSHING, SOLDER HOOK TERMS

SIZE C	CAGE CODE -	DWG NO 392-MATRIX-IDWG-13	TYPE I	REV A
SCALE NONE	REF WT: SEE NOTE	SHEET 2 of 2		