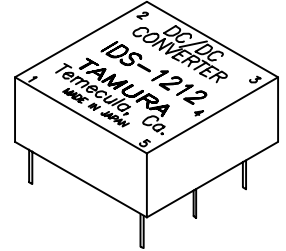


DC/DC CONVERTER 0.5W +12Vout

A. Electrical Specifications

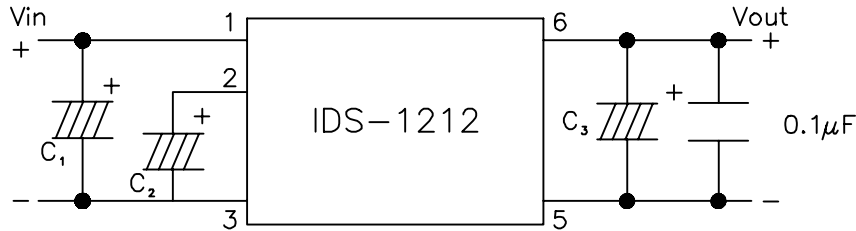
- | | |
|----------------------------|--|
| 1. Input Voltage | 9.6-14.4Vdc (Rating 12V) |
| 2. Output Voltage | 12V±0.12 |
| 3. Output Current | 12.5-42mA |
| 4. Output Ripple | 50mVp-p typ. at 22µF for output cap.
Recommend low ESR. |
| 5. Line Regulation | ±1.2% MAX. |
| 6. Load Regulation | 7% MAX. |
| 7. Temperature coefficient | ±0.03%/°C |
| 8. Efficiency | 55% MIN. |
| 9. Output short protection | Built-in auto-reset protection |
| 10. Operating temperature | -10°C-+70°C |
| 11. Storage temperature | -30°C-+85°C |
| 12. Operating humidity | 95% RH max. without condensation |
| 13. Dielectric strength | DC500V 1 min. Input-Output, Case |
| 14. Insulation resistance | 50MΩ min. at DC500V |

MODEL NUMBER
IDS-1212



B. Marking; IDS-1212, TAMURA, Temecula Ca, date code and country of origin

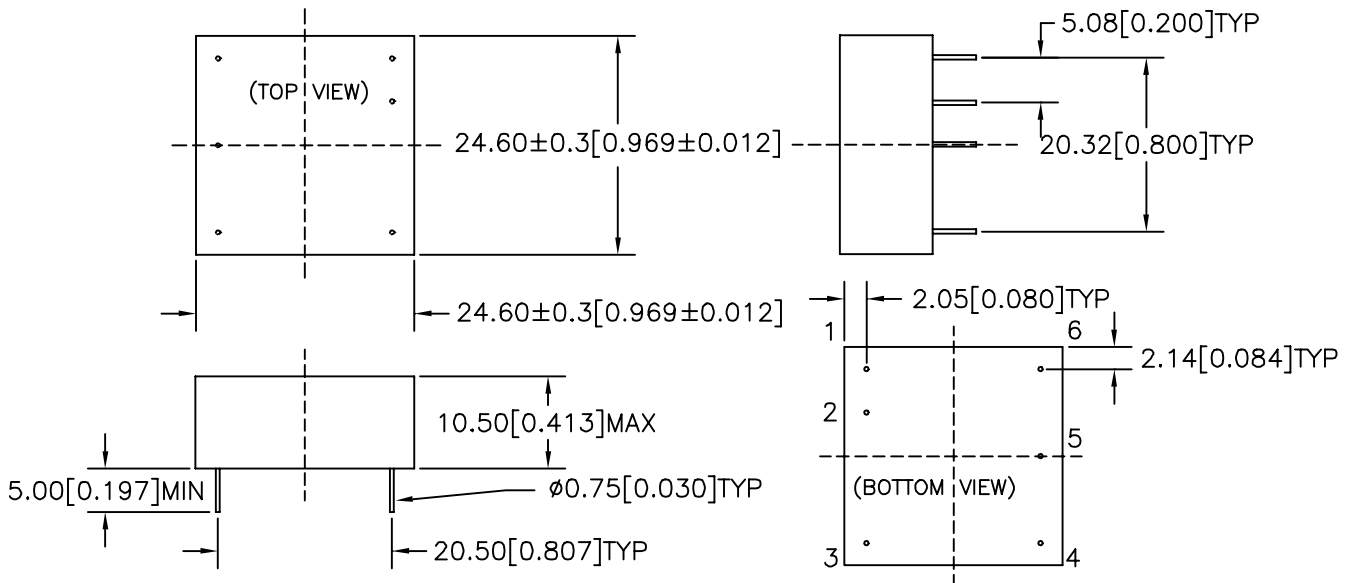
C. Schematic



External Capacitor
C1, C2 47µF / 16V
C3 100µF / 16V
Recommended

D. Mechanical specification

- | | |
|---------------------------|--|
| 1. Outline dimensions | 24.60[0.968] x 24.60[0.968] x 10.50[0.413]MAX. |
| 2. Soldering pin diameter | ∅0.75mm |
| 3. Vibration | 15G or max stroke 1.52mm whichever is smaller
10-2000Hz |
| 4. Shock | 50G half-sine wave |



PREPARED BY:

D. Rund
ENGINEER:

DWG CONTROL NO. REV
P-A3-12537 -
ACAD\MISCX\A3125371.DWG

DC/DC CONVERTER
0.5W 12Vin +12Vout
TAMURA CORPORATION OF AMERICA
43352 BUSINESS PARK DRIVE, TEMECULA, CA. 92590-6624
(909) 699-1270 FAX 9096769482

IDS-1212

MODEL SPECIFICATION

QUALITY CONTROL:

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PRIOR NOTICE

DIM: mm(In) SCL: 2/1 SH: 1 OF 1

D. Kelley
APPROVED:

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D. Kelley