

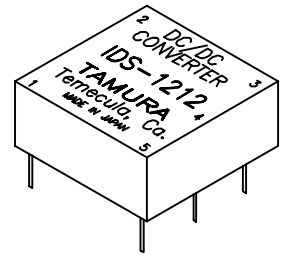
DC/DC CONVERTER 0.5W +12Vout

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 22 μ F 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 | 50M Ω min. at DC500V |

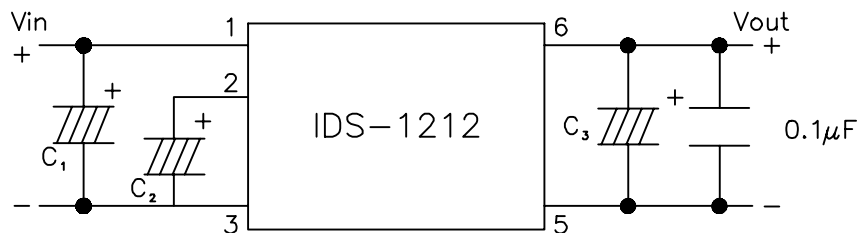
MODEL NUMBER

IDS-1212



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

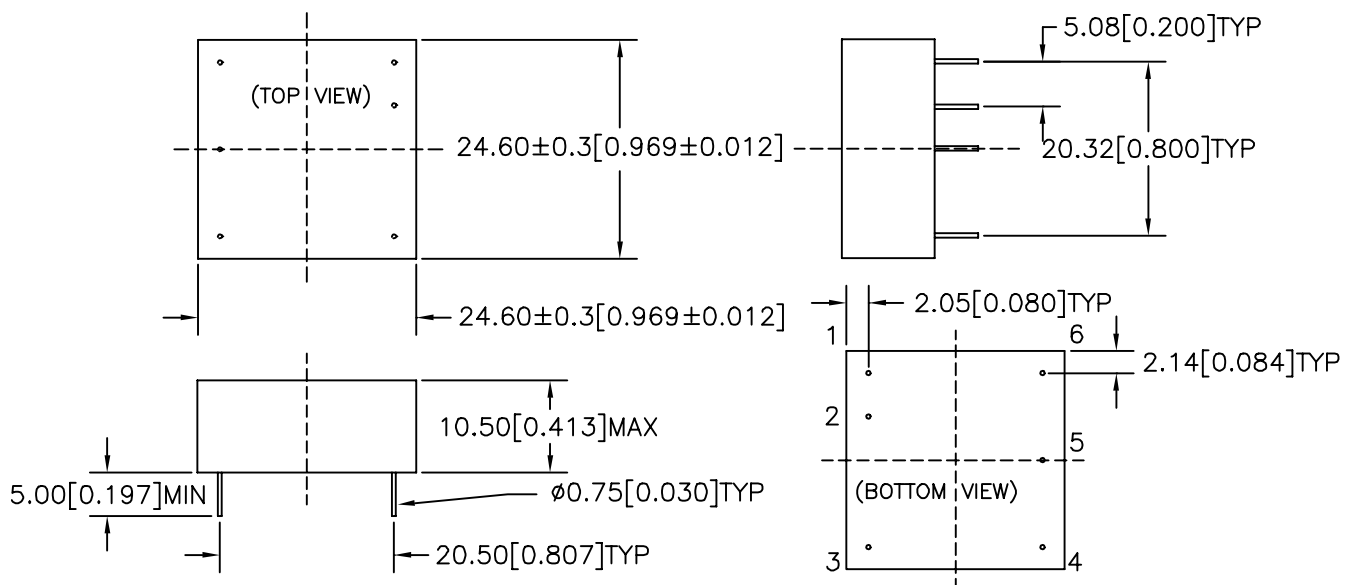
C. Schematic



External Capacitor
C1, C2 47 μ F / 16V
C3 100 μ F / 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 | Ø0.75mm |
| 3. Vibration | 15G or max stroke 1.52mm whichever is smaller
10–2000Hz |
| 4. Shock | 50G half-sine wave |



PREPARED BY:

D. Rund

ENGINEER:

QUALITY CONTROL:

D. Kelley

APPROVED:

D. Kelley

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

REV
—

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

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

PROPRIETARY NOTICE: THIS DRAWING PRINT OR DOCUMENT AND SUBJECT MATTER DISCLOSED HEREIN ARE PROPRIETARY ITEMS TO WHICH TAMURA RETAINS THE EXCLUSIVE RIGHT OF DISSEMINATION, REPRODUCTION, MANUFACTURE AND SALE. THIS DRAWING, PRINT OR DOCUMENT IS SUBMITTED IN CONFIDENCE FOR CONSIDERATION BY THE RECIPIENT ALONE UNLESS PERMISSION FOR FURTHER DISCLOSURE IS EXPRESSLY GRANTED IN WRITING.