

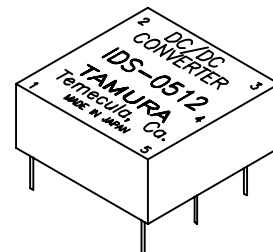
DC/DC CONVERTER 0.5W +12Vout

A. Electrical Specifications

- | | |
|----------------------------|--|
| 1. Input Voltage | 4.5–5.5Vdc (Rating 5V) |
| 2. Output Voltage | 12V±0.12 |
| 3. Output Current | 12.5–42.0mA |
| 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 |

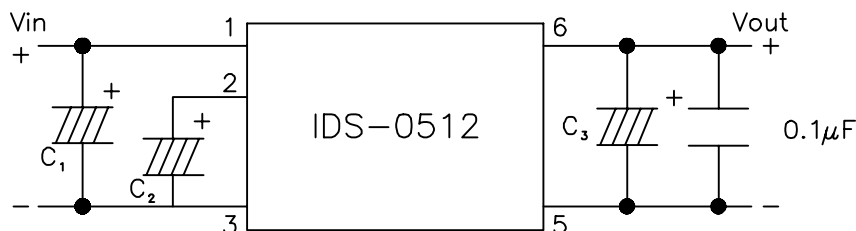
MODEL NUMBER

IDS-0512



B. Marking; IDS-0512, TAMURA, Temecula Ca, date code and country of origin

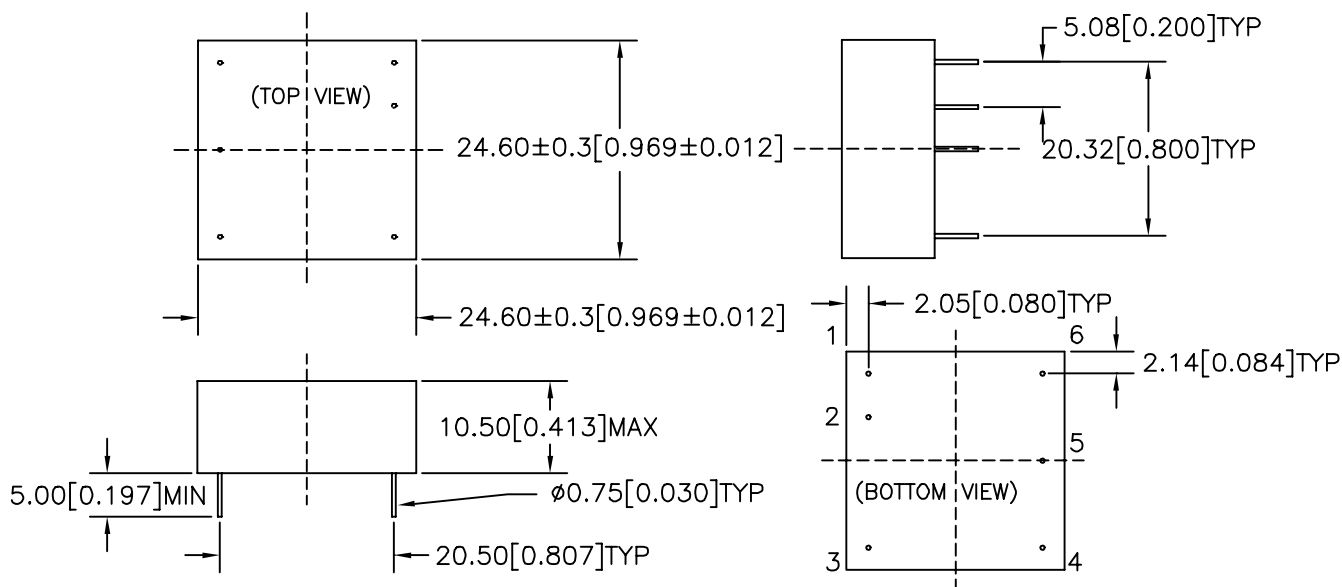
C. Schematic



External Capacitor
C1, C2 220μF / 10V
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 | 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-A3-12535
ACAD\MISCX\A3125351.DWG

REV

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DC/DC CONVERTER
0.5W 5Vin +12Vout

TAMURA CORPORATION OF AMERICA

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IDS-0512

MODEL SPECIFICATION

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

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