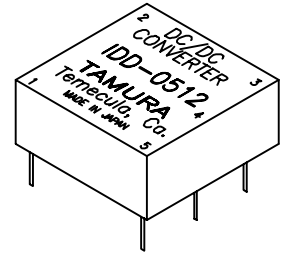


DC/DC CONVERTER 0.5W ±12V

A. Electrical Specifications

- |                            |                                                            |
|----------------------------|------------------------------------------------------------|
| 1. Input Voltage           | 4.5-5.5Vdc (Rating 5V)                                     |
|                            | CH1 CH2                                                    |
| 2. Output Voltage          | 12V±0.24 -12V±0.24                                         |
| 3. Output Current          | 6.25-21mA 6.25-21mA                                        |
| 4. Output Ripple           | 50mVp-p TYP. at 22µF for output cap.<br>Recommend low ESR. |
| 5. Line Regulation         | ±1% 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  
**IDD-0512**



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

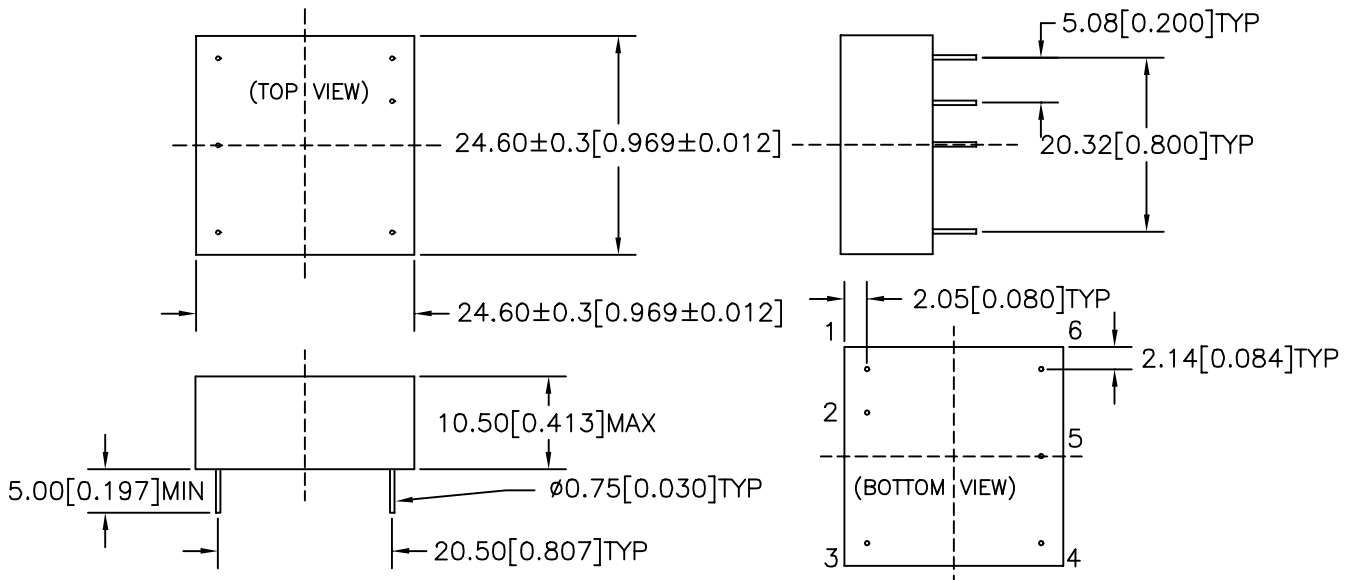
C. Schematic



External Capacitor  
C1, C2 220µF / 10V  
C3, C4 47µF / 16V  
Recommended

D. Mechanical specification

- |                           |                                                            |
|---------------------------|------------------------------------------------------------|
| 1. Outline dimensions     | 24.60[0.969] x 24.60[0.969] x 10.50[0.413]MAX              |
| 2. Soldering pin diameter | ∅0.75mm                                                    |
| 3. Vibration              | 15G or max stroke 1.52mm whichever is smaller<br>10-2000Hz |
| 4. Shock                  | 50G half-sine wave                                         |



PREPARED BY:

D. Rund

ENGINEER:

DWG CONTROL NO. P-A3-12540  
ACAD\MISCX\A3125401.DWG

REV -

DC/DC CONVERTER  
0.5W 5Vin ±12Vout

**IDD-0512**

QUALITY CONTROL:

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**TAMURA CORPORATION OF AMERICA**

43352 BUSINESS PARK DRIVE, TEMECULA, CA. 92590-6624  
(909) 699-1270 FAX 9096769482

MODEL SPECIFICATION

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

D. Kelley

APPROVED:

D. Kelley

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