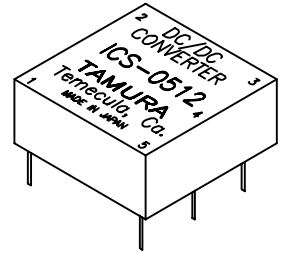


DC/DC CONVERTER 0.3W +12V

A. Electrical Specifications

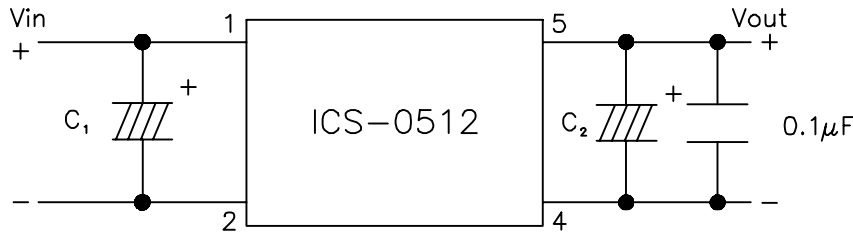
- |                            |  |
|----------------------------|--|
| 1. Input Voltage           | 4.5-5.5Vdc (Rating 5V)                                     |
| 2. Output Voltage          | 12V±0.12   |
| 3. Output Current          | 7.5-25.0mA   |
| 4. Output Ripple           | 50mVp-p typ. at 22µF for output cap.<br>Recommend low ESR. |
| 5. Line Regulation         | ±1.2% MAX.   |
| 6. Load Regulation         | 7% MAX.  |
| 7. Temperature coefficient | ±0.03%/°C  |
| 8. Efficiency              | 50% 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  
**ICS-0512**



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

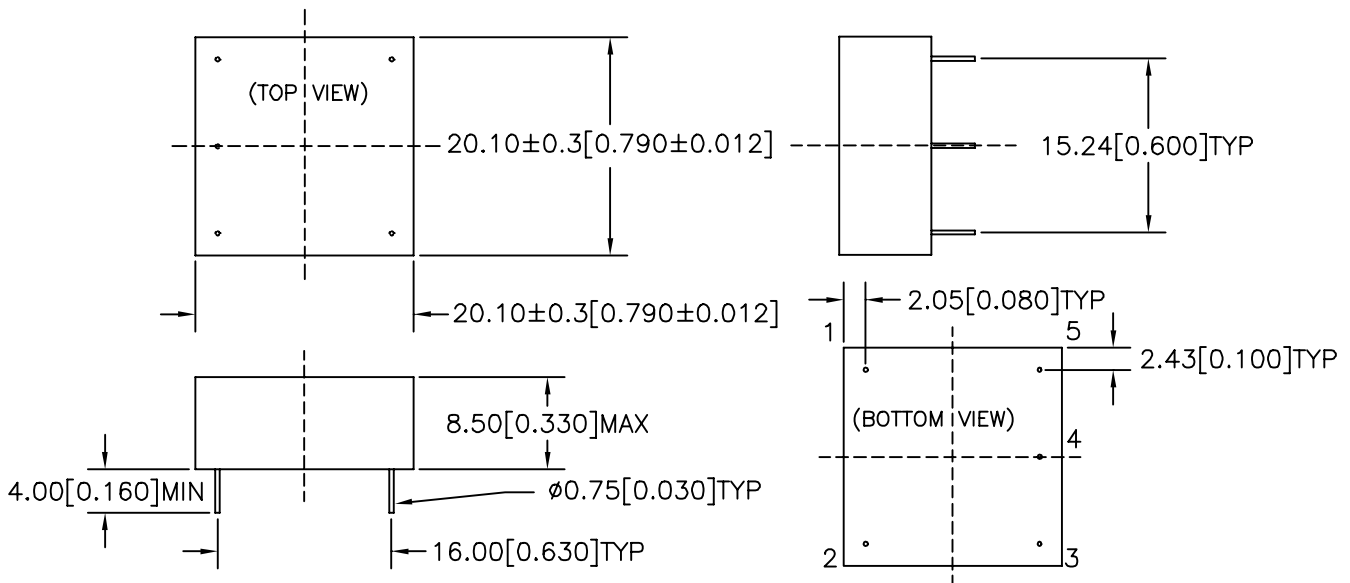
C. Schematic



External Capacitor  
C1 100µF / 10V  
C2 47µF / 16V  
Recommended

D. Mechanical specification

- |                           |  |
|---------------------------|--|
| 1. Outline dimensions     | 20.4(0.80) x 20.4(0.80) x 8.5(0.33) 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-A3-12466  
ACAD\MISCX\A3124661.DWG

REV -

DC/DC CONVERTER  
0.3W 5Vin +12Vout

**ICS-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

D. Kelley  
APPROVED:

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

D. Kelley

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