

DC/DC CONVERTER 3.0W +12Vout

A. Electrical Specifications

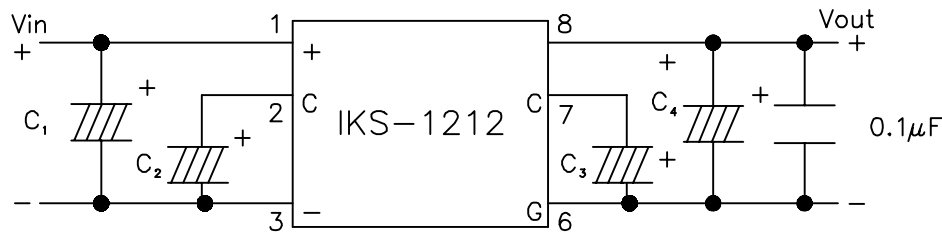
- |                            |   |
|----------------------------|---|
| 1. Input Voltage           | 9.6~14.4Vdc (Rating 12V)                                    |
| 2. Output Voltage          | +12V±0.12   |
| 3. Output Current          | 75-250mA  |
| 4. Output Ripple           | 40mVp-p typ. at 100µF for output cap.<br>Recommend low ESR. |
| 5. Line Regulation         | ±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  
**IKS-1212**



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

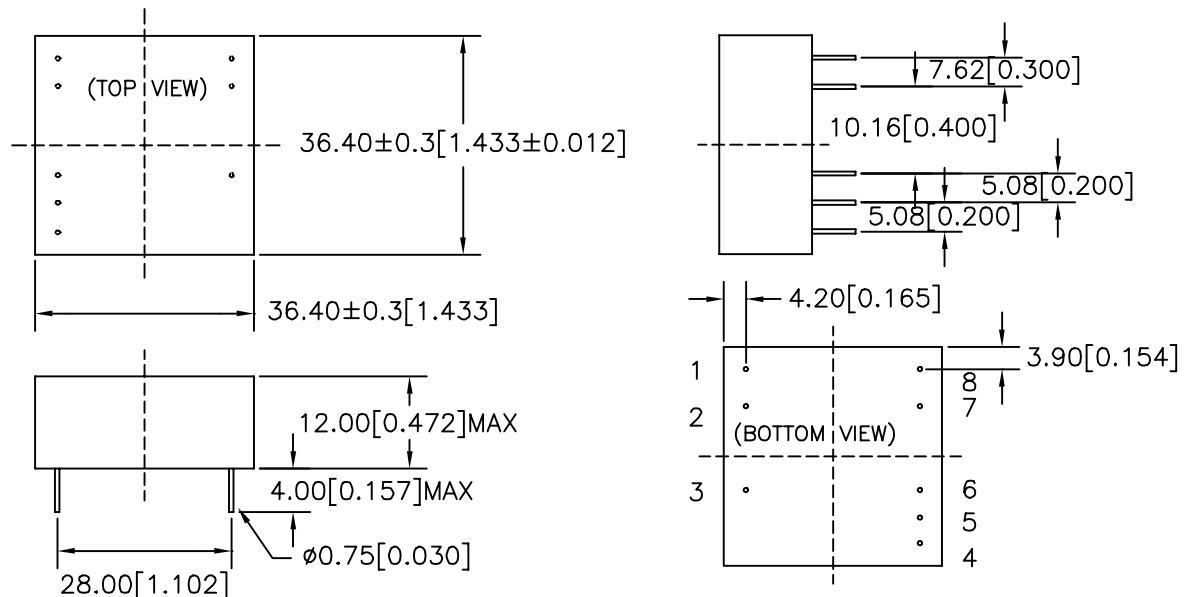
C. Schematic



External Capacitor  
C1, C2 470µF/16V  
C3, C4 330µF/16V  
Recommended

D. Mechanical specification

- |                           |   |
|---------------------------|---|
| 1. Outline dimensions     | 36.40[1.433] x 36.40[1.433] x 12.00[0.472]MAX.            |
| 2. Soldering pin diameter | ∅0.75mm   |
| 3. Vibration              | 15G or max stroke 1.52mm whichever is smaller<br>10-200Hz |
| 4. Shock                  | 50G half-sine wave  |



PREPARED BY:

D. Rund

ENGINEER:  
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DWG CONTROL NO. P-A3-12551  
ACAD\DC-DC\A3125511.DWG

REV -

DC/DC CONVERTER  
3W 12Vin +12Vout

**IKS-1212**

QUALITY CONTROL:

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**TAMURA CORPORATION OF AMERICA**

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MODEL SPECIFICATION

DIM: mm(In) SCL: NONE SH: 1 OF 1

D. Kelley

APPROVED:

D. Kelley

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