

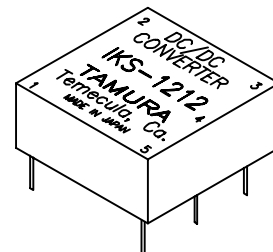
DC/DC CONVERTER 3.0W +12Vout

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.
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 |

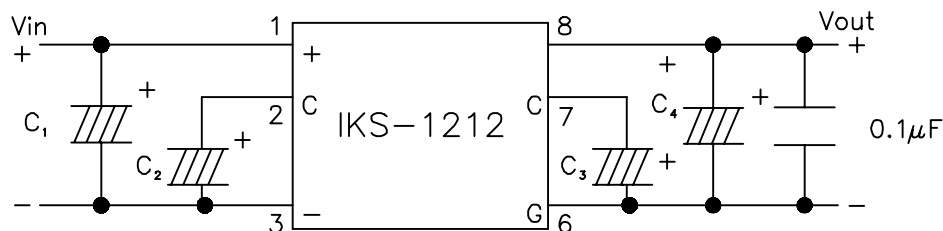
MODEL NUMBER

IKS-1212



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

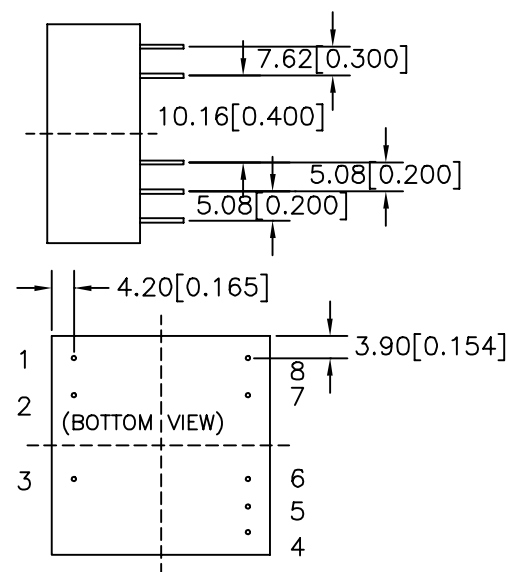
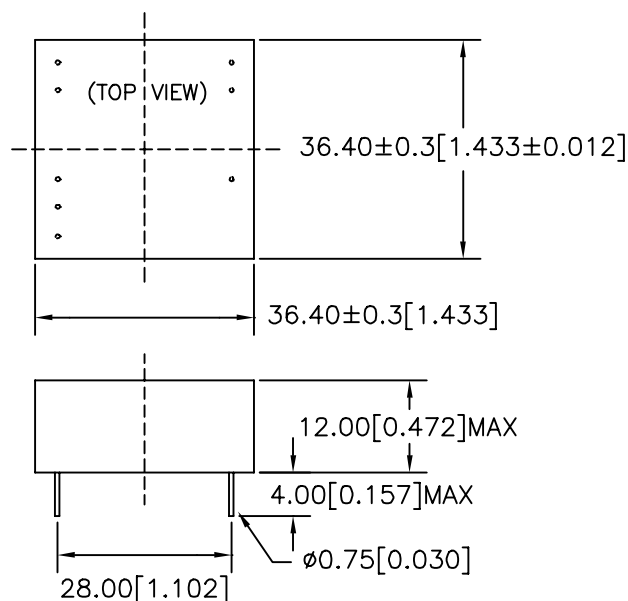
C. Schematic



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 | ø0.75mm |
| 3. Vibration | 15G or max stroke 1.52mm whichever is smaller
10~200Hz |
| 4. Shock | 50G half-sine wave |



PREPARED BY:

D. Rund

ENGINEER:

QUALITY CONTROL:

D. Kelley

APPROVED:

D. Kelley

DWG CONTROL NO.
P-A3-12551
ACAD\DC-DC\A312551.DWG

REV
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DC/DC CONVERTER
3W 12Vin +12Vout

TAMURA CORPORATION OF AMERICA

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IKS-1212

MODEL SPECIFICATION

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

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