

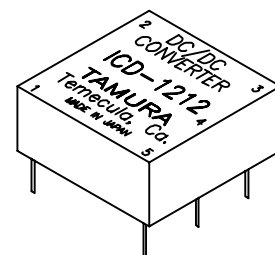
DC/DC CONVERTER 0.3W +12V : ± 12 V

A. Electrical Specifications

- | | |
|----------------------------|--|
| 1. Input Voltage | 9.6–14.4Vdc (Rating 12V) |
| 2. Output Voltage | CH1 CH2 |
| 3. Output Current | 12V $\pm$ 0.24 –12V $\pm$ 0.24 |
| | 3.75–12.5mA 3.75–12.5mA |
| 4. Output Ripple | 50mVp–p typ. at 22 μ F for output cap.
Recommend low ESR. |
| 5. Line Regulation | $\pm 1\%$ max. |
| 6. Load Regulation | 7% max. |
| 7. Temperature coefficient | $\pm 0.03\%/^{\circ}\text{C}$ |
| 8. Efficiency | 55% min. |
| 9. Output short protection | Built-in auto-reset protection |
| 10. Operating temperature | –10 $^{\circ}\text{C}$ –+70 $^{\circ}\text{C}$ |
| 11. Storage temperature | –30 $^{\circ}\text{C}$ –+85 $^{\circ}\text{C}$ |
| 12. Operating humidity | 95% RH max. without condensation |
| 13. Dielectric strength | DC500V 1 min. Input–Output, Case |
| 14. Insulation resistance | 50M Ω min. at DC500V |

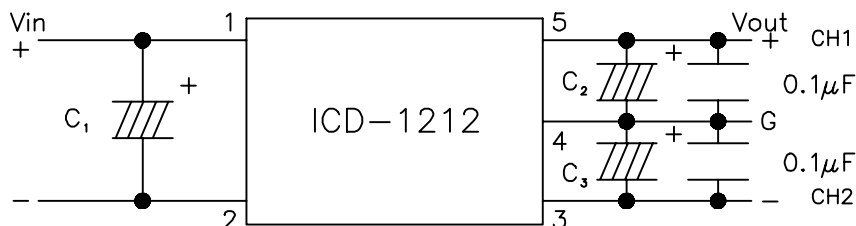
MODEL NUMBER

ICD-1212



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

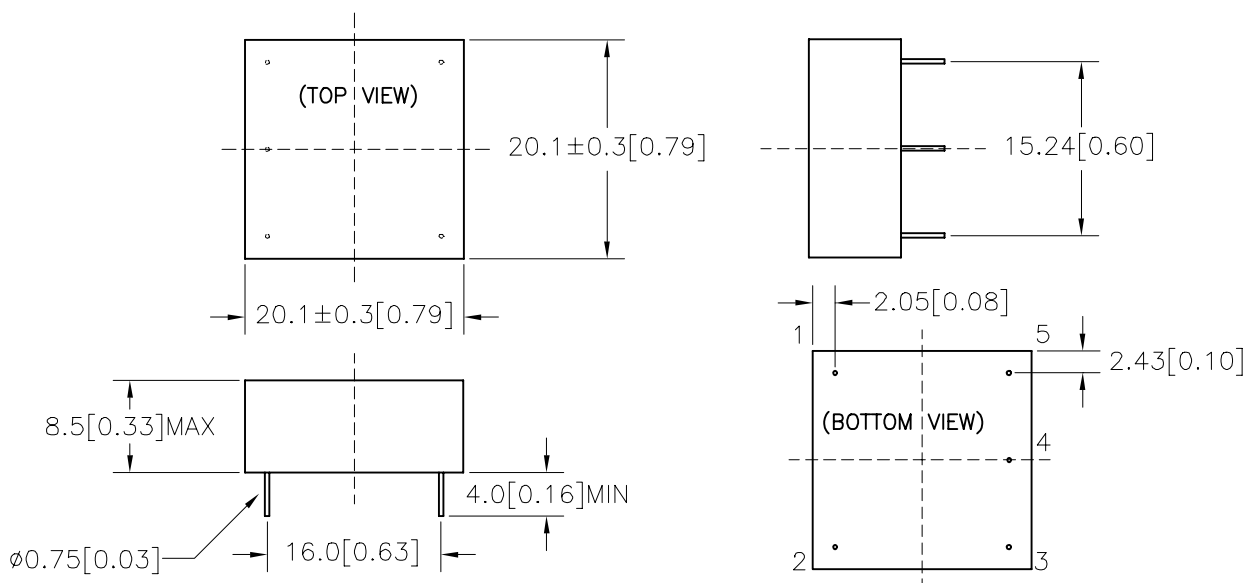
C. Schematic



External Capacitor
 C1 47 μ F / 16V
 C2,3 22 μ F / 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 | $\phi 0.75$ mm |
| 3. Vibration | 15G or max stroke 1.52mm whichever is smaller
10–2000Hz |
| 4. Shock | 50G half-sine wave |



PREPARED BY:

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ENGINEER:

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QUALITY CONTROL:

D. Kelley

APPROVED:

D. Kelley

DWG CONTROL NO.
P-A3-12259
ACAD\MISCX\A3122591.DWG

REV
—

DC/DC CONVERTER
0.3W 12Vin ± 12 Vout

ICD-1212

MODEL SPECIFICATION

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

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