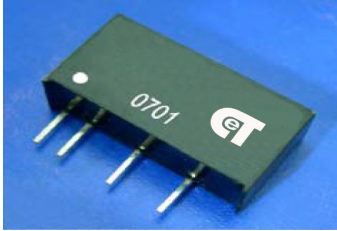


CT-15D SERIES

1000Vdc Isolation Regulated Single Output 1 Watt Dc-Dc Converter



FEATURES:

- 7PIN SIP & 14PIN DIL Package
- High Efficiency up to 70%
- Output Regulation < 1.5%
- Internal SMD Construction
- No External Component Required ● Industry Standard Pinout
- Operating Temperature: -40°C TO +85°C



Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

| Part Number | Output Voltage | Output Current | Efficiency | Package Style |
|--------------|----------------|----------------|------------|---------------|
| | Vdc | mA | %TYP | |
| CT-XXS05RNL | 5 | 100 | 45 | 1 |
| CT-XXS09RNL | 9 | 100 | 55 | 1 |
| CT-XXS12RNL | 12 | 84 | 55 | 1 |
| CT-XXS15RNL | 15 | 67 | 60 | 1 |
| CT-XXS05R2NL | 5 | 100 | 45 | 2 |
| CT-XXS09R2NL | 9 | 100 | 55 | 2 |
| CT-XXS12R2NL | 12 | 84 | 55 | 2 |
| CT-XXS15R2NL | 15 | 67 | 60 | 2 |
| CT-XXS24R2NL | 24 | 42 | 60 | 2 |
| CT-XXS05R3NL | 5 | 100 | 45 | 3 |
| CT-XXS09R3NL | 9 | 100 | 55 | 3 |
| CT-XXS12R3NL | 12 | 84 | 55 | 3 |
| CT-XXS15R3NL | 15 | 67 | 60 | 3 |
| CT-XXS05R4NL | 5 | 100 | 45 | 4 |
| CT-XXS09R4NL | 9 | 100 | 55 | 4 |
| CT-XXS12R4NL | 12 | 84 | 55 | 4 |
| CT-XXS15R4NL | 15 | 67 | 60 | 4 |
| CT-XXS24R4NL | 24 | 42 | 60 | 4 |

Note: 1. "XX" Is Input Voltage: 05=5Vdc, 09=9Vdc, 12=12Vdc, 15=15Vdc, 24=24Vdc
 3. The input voltage increases, there will be an increase in efficiency.

2. Over 24Vdc input voltage, using the 2nd or 4nd package

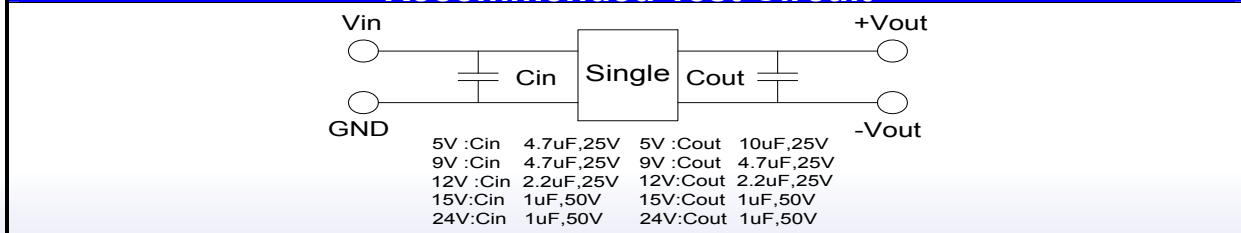
Input Specifications

| Parameters | Conditions | Min | Typ | Max | Units |
|-------------------|------------|-----|-----|-----|-------|
| Voltage Tolerance | Vo, Io Nom | | | ±5 | % |
| Filter | Capacitor | | | | |

Output Specifications

| Parameters | Conditions | Min | Typ | Max | Units |
|---------------------------------|----------------------|-----|------|-----|-------|
| Voltage Tolerance | 100% full load | | | ±5 | % |
| Short Circuit Protection | Continuous | | | | |
| Line Regulation | For 1.0% OF Vin | | 0.25 | | % |
| Load Regulation | 10% To 100% F.L | | | 1.5 | % |
| Ripple & Noise | BW=DC To 20MHZ | | | 100 | mVp-p |
| Transient response setting time | 50% load step change | | 350 | | us |

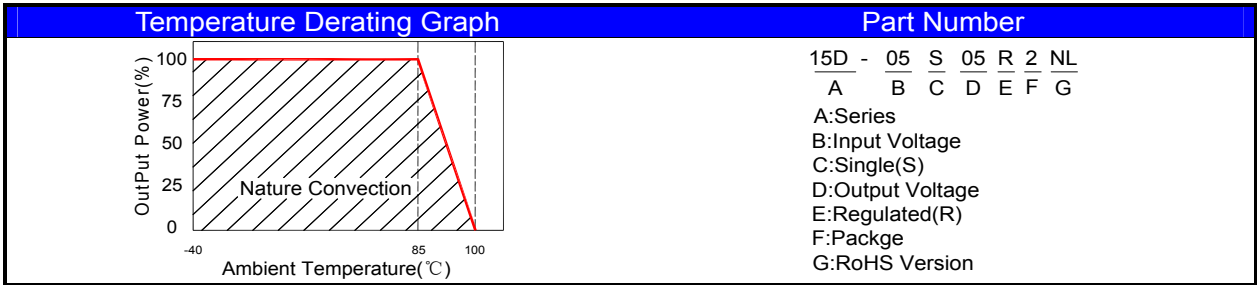
Recommended Test Circuit



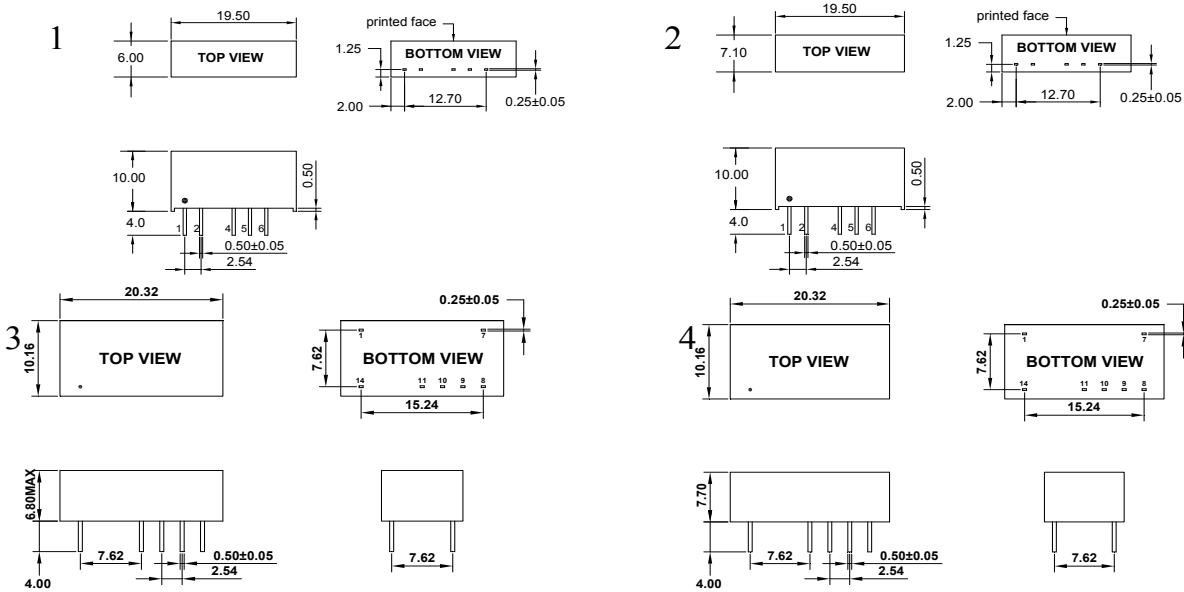
CT-15D SERIES

1000Vdc Isolation Regulated Single Output 1 Watt Dc-Dc Converter

| General Specifications | | | | | |
|------------------------|-------------------------|---------|------------------|-----|-------|
| Parameters | Conditions | Min | Typ | Max | Units |
| Isolation Resistance | 500Vdc | 1000 | | | MΩ |
| Switching Frequency | Full load,nominal input | | 100 | | KHz |
| Operating Temperature | | -40 | | 85 | °C |
| Humidity | Non Condensing | | | 95 | % |
| Cooling | Free air Convection | | | | |
| Case material | DAP | | | | |
| MTBF | MIL-HDBK-217F@25°C | 1500000 | | | Hours |
| Weight | Package 1/2/3/4 | | 2.1/2.7/2.3/3.0 | | g |
| Dimensions | Package 1 | | 19.50x6.00x10.00 | | mm |
| Dimensions | Package 2 | | 19.5x7.10x10.00 | | mm |
| Dimensions | Package 3 | | 20.32x10.16x6.80 | | mm |
| Dimensions | Package 4 | | 20.32x10.16x7.70 | | mm |



Markings and dimensions



Unit:mm Unless otherwise specified, all tolerances are ± 0.25

| PIN Connection | | | | | | | | | | | |
|----------------|------|------|-------|------|-------|----|----|-------|------|-------|------|
| PIN | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 14 |
| 7PIN | +Vin | -Vin | -Vout | CTRL | +Vout | | | | | | |
| 14PIN | -Vin | | | | | NC | NC | +Vout | CTRL | -Vout | +Vin |