

1 WATT ISOLATED DC/DC CONVERTER



- **60V~154V INPUT RANGE**
- **REGULATED OUTPUT**
- **1500Vdc INPUT / OUTPUT ISOLATION**
- **HIGH EFFICIENCY**
- **SHORT CIRCUIT PROTECTION (continuous)**
- **OVER VOLTAGE PROTECTION (clamp)**
- **24PIN DIP WITH INDUSTRY STANDARD PACKAGE AND PINOUT**

ELECTRICAL SPECIFICATIONS : At Nominal Input , Full Load and 25°C

INPUT SPECIFICATIONS :

- Input Voltage Range : 60V~154V
- Input Filter : Pi Type
- **Absolute Maximum Input Voltage** : 200V

GENERAL SPECIFICATIONS :

- Switching Frequency : 70KHz Typical
- Efficiency : 68%typ.
- **Isolation Voltage** :
Input-to-Output : 1500Vdc
- Isolation Resistance : $\geq 1000M$ ohm(500VDC)

ENVIRONMENTAL SPECIFICATIONS :

- Operating Temperature Range :
-40°C to +75°C
- **Maximum Case Temperature** : +95°C
- Storage Temperature Range :
-55°C to +115°C
- Cooling : Free-air Convection
- Temperature Coefficient : $\pm 0.05\%$ /°C max
- Humidity : 95%

OUTPUT SPECIFICATIONS :

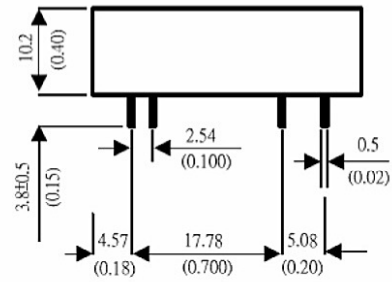
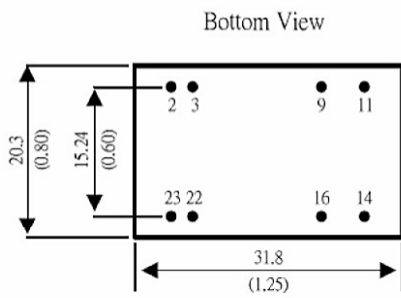
- Output Voltage & Current : 12V/83mA
- Output Voltage Accuracy : $\pm 2\%$
- Ripple & Noise (20MHz BW) : 120mV_{P-P} max.
- Line Regulation : $\pm 0.5\%$ max.
- Load Regulation F.L→1/4F.L : $\pm 0.5\%$ max
- Short Circuit Protection : Continuous(auto-recovery)
- Over Load protection : $\geq 110\%$ of full Load
- Transient Response Recovery Time
(50% Load Step Change) : 300 μ s max.

PHYSICAL SPECIFICATIONS :

- Case Material : Non-Conductive black plastic
- Pin Material : Brass , Solder Coated
- Potting Material :Epoxy (Flammability to UL94V-0)
- Dimensions : 1.25*0.8*0.4 inches
(31.8*20.3*10.2mm)
- Weigh: 12.5g

RECOMMENDED INPUT FUSE (Slow Blow) :
0.1A/250V

Mechanical Specifications



TOLERANCE	MILLIMETERS	INCHES
	.X±0.25	.XX±0.01
	.XX±0.25	.XXX±0.01
PIN	±0.05	±0.002

NOTE:

- (1) All specifications are typical at $T_a=25^{\circ}\text{C}$, nominal input voltage, resistive load and rated output current unless otherwise noted.
- (2) Specifications subject to change without notice.