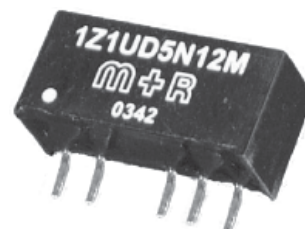


1 Watt

6 Pin SIL Package Z1



- o Ultra Miniature Size
- o Unregulated Dual Output
- o 3 KVDC I/O-Isolation Standard
- o Extended Temperature Range



MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		%EFF
				NO LOAD	FULL LOAD	
1Z1UD5N5M	5 VDC	±5 VDC	±100 mA	26 mA	286 mA	70
1Z1UD5N9M		±9 VDC	±55 mA		278 mA	72
1Z1UD5N12M		±12 VDC	±42 mA		270 mA	74
1Z1UD5N15M		±15 VDC	±34 mA		255 mA	77
1Z1UD12N5M	12 VDC	±5 VDC	±100 mA	15 mA	119 mA	70
1Z1UD12N9M		±9 VDC	±55 mA		111 mA	75
1Z1UD12N12M		±12 VDC	±42 mA		107 mA	78
1Z1UD12N15M		±15 VDC	±34 mA		104 mA	80

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

INPUT SPECIFICATIONS

Input Voltage Range	±10%
Input Filter	Capacitors

OUTPUT SPECIFICATIONS

Voltage Accuracy	±3% max.
Voltage Balance (Dual Output)	±1%
Temperature Coefficient	±0.02%/°C max.
Ripple and Noise, 20MHz BW	75 mV p-p typ.
Short Circuit Protection	Momentary
Line Regulation per 1% of Vin	±1.2%
Load Regulation (20~100%)	±14% max.

GENERAL SPECIFICATION

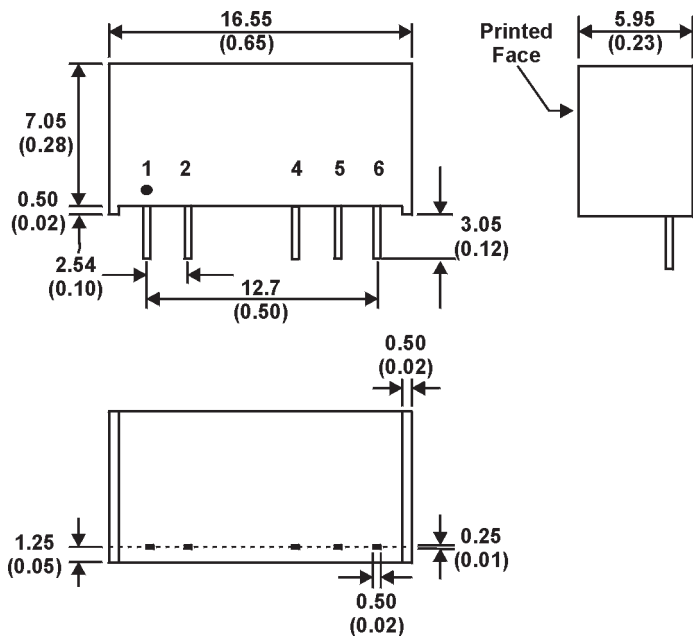
Efficiency	see table
Isolation Voltage	3.000 VDC
Isolation Resistance	1.000 Mohms
Isolation Capacitance	50 pF typ.
Leakage Current	1 mA
Switching Frequency	160 kHz typ.
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-55°C to +125°C
Derating	None Required
Humidity	up to 90%, non condensing
Cooling	Free-air Convection
Weight	1.8 grams
Case Material	Non Conductive Black Plastic
MTBF (MIL-HDBK-217F)	>1.828.000 hrs

SPECIFICATIONS

All Specifications Typical At Nominal Line, Full Load, and 25°C Unless Otherwise Noted

MECHANICAL SPECIFICATIONS

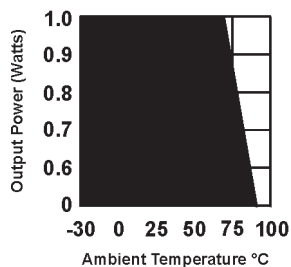
CASE "Z1"



PIN CONNECTIONS 3 KVDC	
Pin	Dual
1	+INPUT
2	-INPUT
4	-OUTPUT
5	COMMON
6	+OUTPUT

All Dimensions in mm
(Inches)

Temperature Derating Graph

**NOTICE:**

The information in this document has been carefully checked. However, no responsibility is assumed for inaccuracies! Specifications can be changed without notice. The latest and most complete information can be found on our website.