

Features

- 2WATT SIP PACKAGE
- 2:1 WIDE INPUT VOLTAGES
- EFFICIENCY TO 75%
- 100% BURNED IN
- UL 94V-0 PACKAGE MATERIAL
- CUSTOM SOLUTIONS AVAILABLE
- REGULATED OUTPUT TYPES



**2 Watt DC/DC
Converter**

WIDE INPUT VOLTAGE RANGE

2 WATT DC-DC CONVERTER

Input Specifications

Input Voltage	:5Vdc
Input Voltage Range	:4.5-9Vdc

Output Specifications

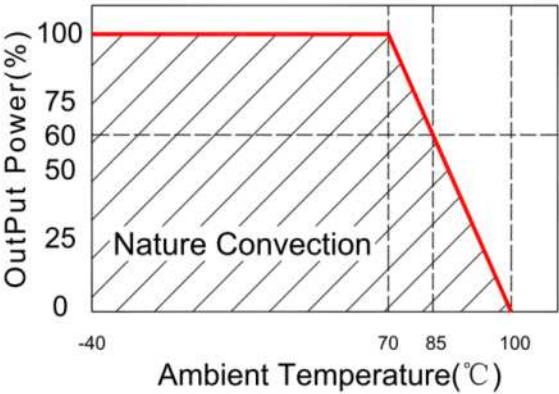
Output Voltage	:12Vdc	
Output Voltage Accuracy	: $\pm 3\%$	@Vout=11.64-12.36Vdc@Vin=4.5-9Vdc
Output Current	:167mA	
Efficiency	:75% TYP	
Ripple / Noise	:100mVp-p MAX	@20MHz Bandwidth
Short Circuit Protection	:Continuous	@Automatics recovery
Line Regulation	: $\pm 0.5\%$ MAX	@ LL to HL at Full Load
Load Regulation	: $\pm 0.8\%$ MAX	@0% to 100%FL

General Specifications

Operating Temperature Range	: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$	
Storage Temperature	: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$	
Switching Frequency	:200KHz TYP	
Humidity	:95% MAX	
Isolation Voltage	:1500Vdc	@Input to Output (60sec/0.5mA)
Isolation Resistance	:1000M Ω MIN	@ 500Vdc
Cooling	:Free air convection	
MTBF	:>1500000 Hours	MIL-HDBK-217F@25°C,Ground Benign.
Case Material	:DAP	
Weight	:4.5g TYP	
Remote Control:		
Turn On	: 0 ~ 0.8Vdc or open circuit	
Turn Off	: 2.5 ~ 12Vdc	

Temperature Derating Graph

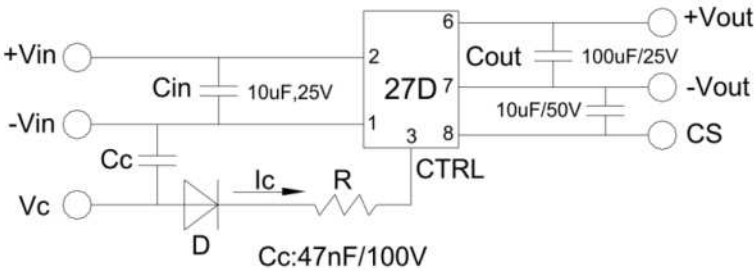
Part Number



27D - 05 S 12 R 2 1.5KV
A B C D E F G

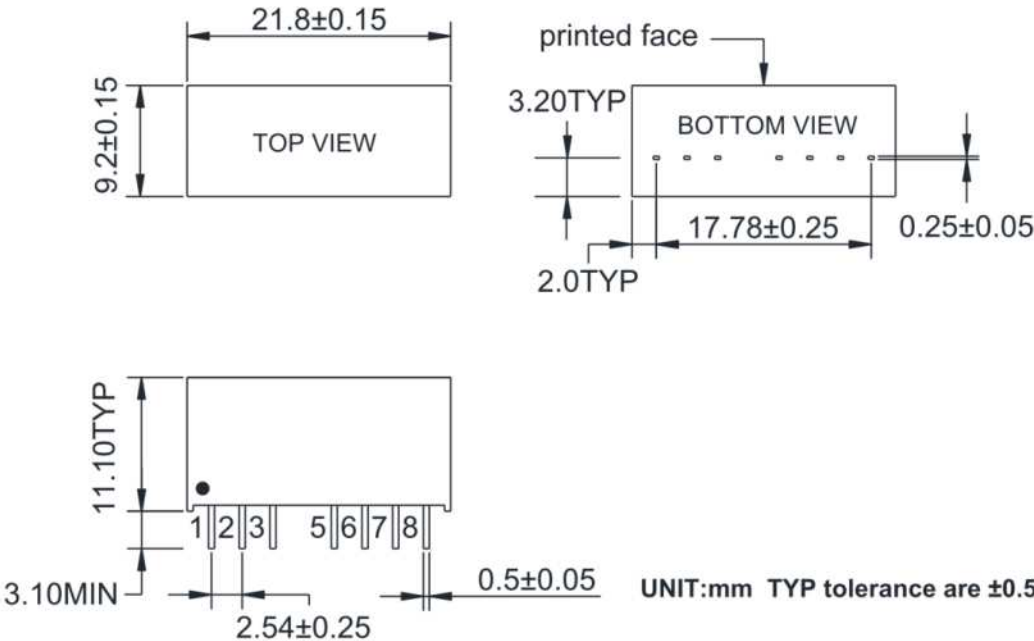
A:Series
B:Input Voltage
C: Single Output
D: Output Voltage
E:Regulated(R)
F:Package
G:Isolation Voltage

Recommended Test Circuit



- 1.When open or high impedance, the converter works well; When this pin is 'high', the converter shut down. It should be note that the input current should be between 5-10mA,exceeding the maximum 20mA will cause permanent damage to the converter.
- 2.To make sure the product work at perfect operation status with full loading external capacitor is necessary and it is recommended to use high frequency low resistance electrolytic capacitor.

Outline Dimensions



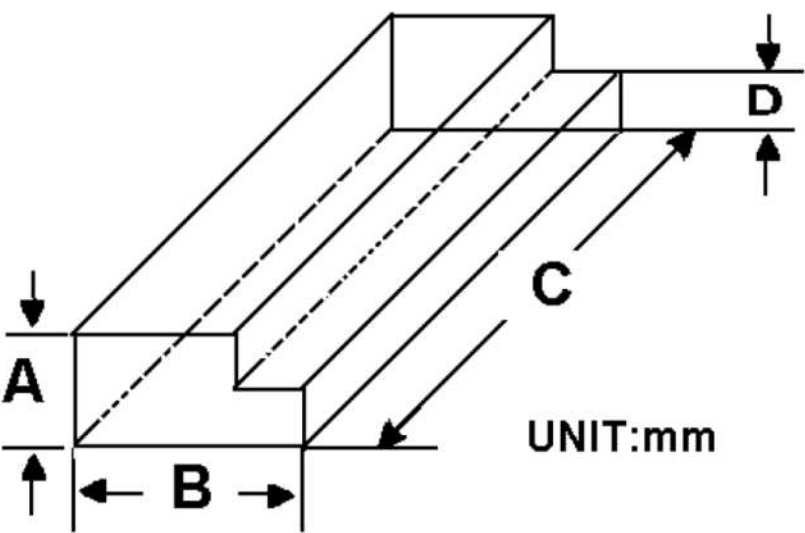
PIN	1	2	3	5	6	7	8
Single	-Vin	+Vin	Ctrl-Control input can (can be left open)	NC	+Vout	-Vout	NC

Packing Information:

Weight----- 4.5grams/pcs

TUBE-----22pcs

Weight: 134.5g per tube



Size(mm)			
A	B	C	D
12.0	28.55	550	6.00

Outer carton unit: 1760pcs/80Tube/box

Weight: 11.8kg per carton

