

Features

- 3WATT SIP PACKAGE
- 8:1 WIDE INPUT VOLTAGES
- EFFICIENCY TO 80%
- 100% BURNED IN
- UL 94V-0 PACKAGE MATERIAL
- CUSTOM SOLUTIONS AVAILABLE
- REGULATED OUTPUT TYPES



**3 Watt DC/DC
Converter**

WIDE INPUT VOLTAGE RANGE
3 WATT DC-DC CONVERTER

Input Specifications

Input Voltage	:12Vdc	
Input Voltage Range	:4.5-36Vdc	
Surge Voltage (1Sec. max.)	:50Vdc	
Input current	:325mA TYP	@Vin=12Vdc,Io=600mA

Output Specifications

Output Voltage	:5Vdc	
Output Voltage Accuracy	:±3%	@Vout=4.85-5.15Vdc@Vin=4.5-36Vdc
Output Current	:600mA	
Efficiency	:77% TYP	@Vin=24Vdc,Io=1200mA
Capacitive Load MAX	:1000uF	
Ripple / Noise	:100mVp-p MAX	@20MHz Bandwidth
Short Circuit Protection	:Continuous	@Automatics recovery
Line Regulation	:±0.5% MAX	@ LL to HL at Full Load
Load Regulation	:±1.0% MAX	@0% to 100%FL

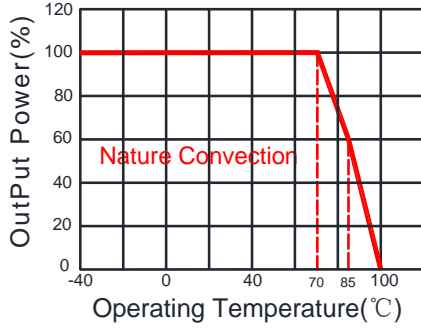
General Specifications

Operating Temperature Range	:-40°C ~ +85°C	
Storage Temperature	:-40°C ~ +100°C	
Switching Frequency	:330KHz TYP	
Humidity	:95% MAX	
Isolation Voltage	:3000Vdc	@ Input to Output (60sec/0.5mA)
Isolation Resistance	:1000MΩ MIN	@ 500Vdc
Cooling	:Free air convection	
MTBF	:>1500000 Hours	MIL-HDBK-217F@25°C,Ground Benign.
Case Material	:DAP	
Weight	:4.5g TYP	

Note. Ripple and noise are measured using a 20 MHz bandwidth, measured using 1uF capacitors, and output at full load

Temperature Derating Graph

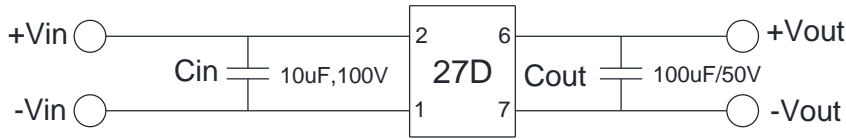
Part Number



27DF - 12 S 05 R 3W
 A B C D E F

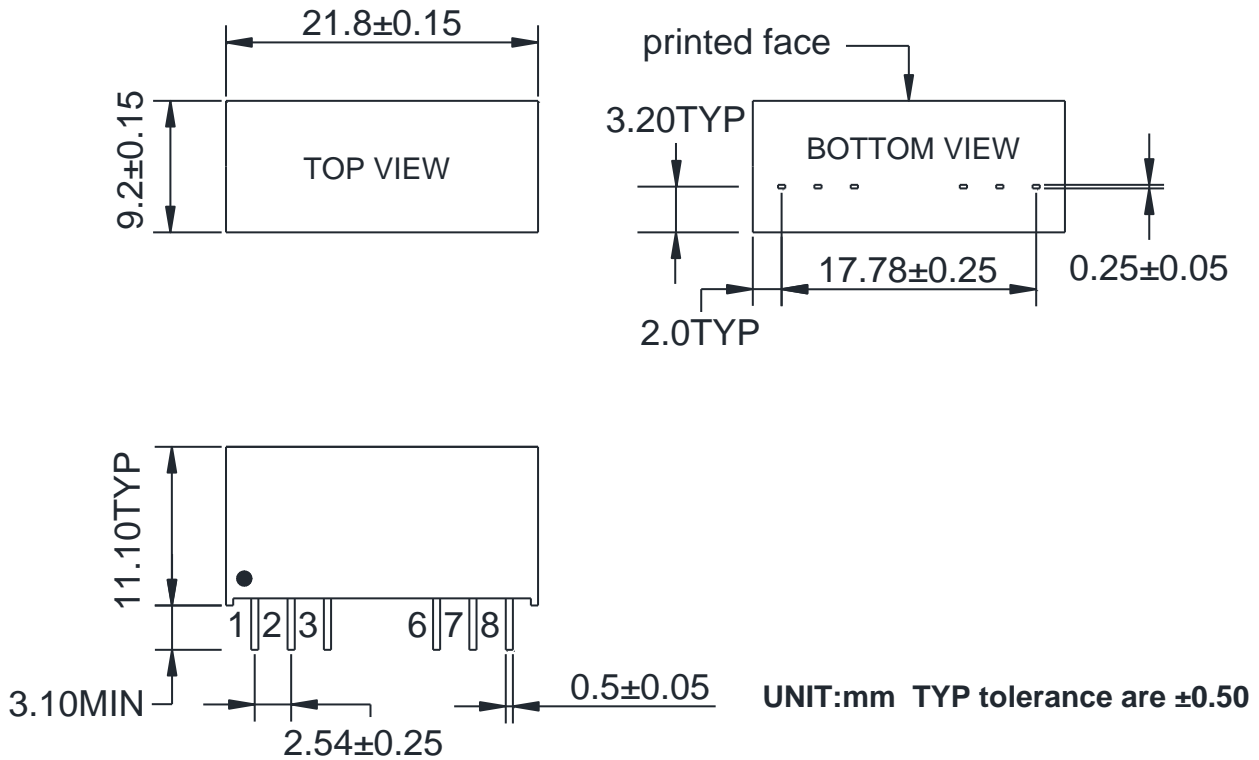
A:Series
 B:Input Voltage
 C:Single Output
 D:Output Voltage
 E:Regulated(R)
 F:Output Power

Recommended Test Circuit



1.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



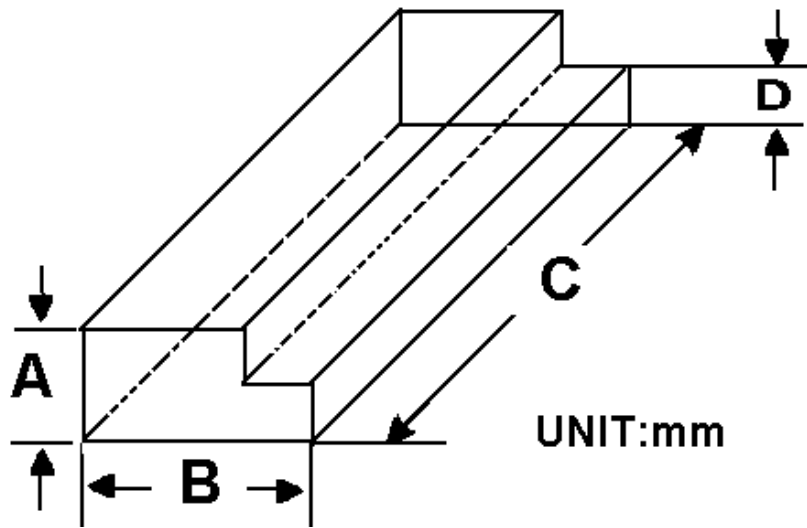
PIN	1	2	3	6	7	8
Single	-Vin	+Vin	NC	+Vout	-Vout	NC

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

