

Features

- 2WATT SIP PACKAGE
- EFFICIENCY TO 79%
- 100% BURNED IN
- UL 94V-0 PACKAGE MATERIAL
- CUSTOM SOLUTIONS AVAILABLE
- UNREGULATED OUTPUT TYPES



**2 Watt DC/DC
Converter**

**2 Watt Dual O/P
Isolated DC-DC Converter**

Input Specifications

Input Voltage	:5Vdc
Input Voltage Range	:±10%

Output Specifications

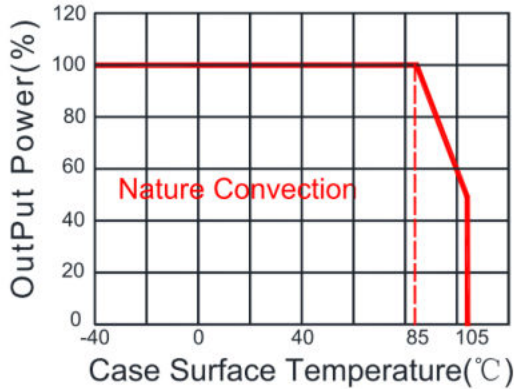
Output Voltage Vo1	:17.64Vdc	
Output Voltage Range	:16.74-18.54Vdc	@ Vin=5Vdc Io1=Io2=80mA
Output Current	:80mA	
Output Voltage Vo2	:-3.3Vdc	
Output Voltage Range	:-3.13~3.67Vdc	@ Vin=5Vdc Io1=Io2=80mA
Output Current	:-80mA	
Efficiency	:79% TYP	
Ripple / Noise	:150mVp-p MAX	@20MHz Bandwidth
Short Circuit Protection	:Continuous	
Line Regulation	:±1.2% TYP	@For 1.0% OF Vin
Load Regulation	:±20% MAX	@10% to 100% full load

General Specifications

Operating Temperature Range	:-40°C ~ +105°C	
Storage Temperature	:-55°C ~ +125°C	
Switching Frequency	:100KHz TYP	
Humidity	:95% MAX	
Isolation Voltage	:5600Vdc	@Input to Output (60sec/0.5mA)
Isolation Resistance	:1000MΩ MIN	@ 500Vdc
Cooling	:Free air convection	
MTBF	:>3500000 Hours	MIL-HDBK-217F@25°C ,Ground Benign.
Case Material	:DAP	
Weight	:4.0g TYP	

Temperature Derating Graph

Part Number

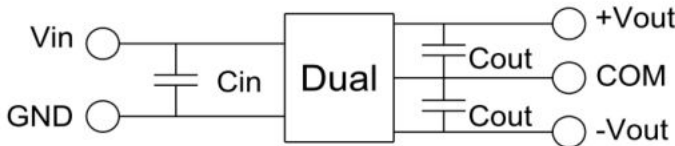


12D1B - 05 D 1803 N 2W

A B C D E F

- A:Series
- B:Input Voltage
- C: Dual Output
- D:Output Voltage
- E:Unregulated(N)
- F:Output Power

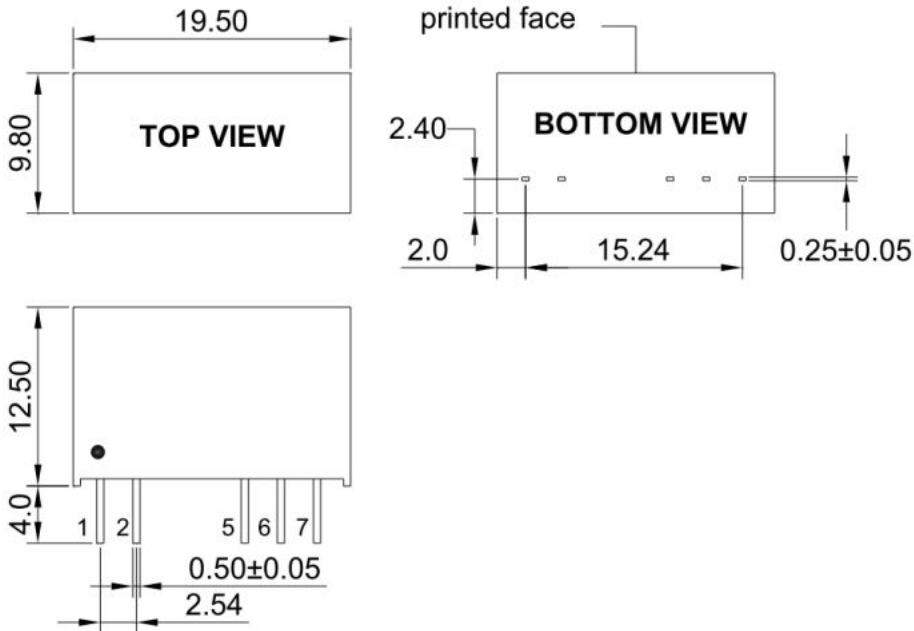
Recommended Test Circuit



Cin	Cout
100μF/35V	±100μF/35V

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



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

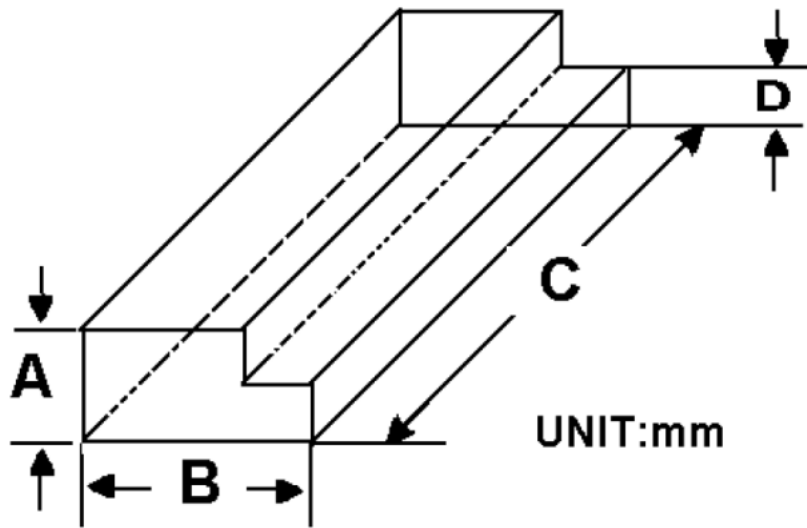
PIN	1	2	5	6	7
Dual	+Vin	-Vin	-Vout	COM	+Vout

Packing Information:

Weight----- 4.0grams/pcs

TUBE-----25pcs

Weight: 135.5g per tube



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

Outer carton unit: 2400pcs/96Tube/box

Weight: 14.0kg per carton

