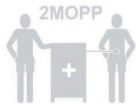


DC-DC Converter

S12D1M-03S05NA



1W Isolated

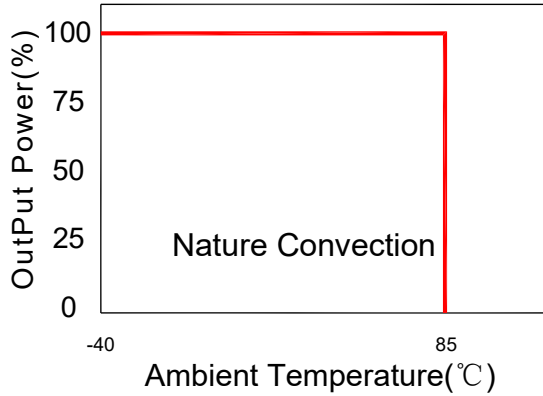


Features

- 1WATT SIP PACKAGE
- EFFICIENCY TO 75%
- 100% BURNED IN
- Isolation Voltage: 4200Vac or 6000Vdc
- UL 94V-0 PACKAGE MATERIAL
- CUSTOM SOLUTIONS AVAILABLE
- UNREGULATED OUTPUT TYPES
- Design refer to EN60601-1, ANSI/AAMI ES60601-1 (2MOPP)
- Creepage distance clearance:8mm MIN

Input Specifications		
Input Voltage	:3.3Vdc	
Input Voltage Range	:±10%	
Output Specifications		
Output Voltage	:5Vdc	
Output Voltage Accuracy	:±5%	@Vout=4.75-5.25dc@Vin=3.3Vdc
Output Current	:200mA	
Efficiency	:70% MIN,75% TYP	
Ripple / Noise	:70mVp-p TYP,120mVp-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 ~ +85°C	
Storage Temperature	:-55°C ~ +125°C	
Switching Frequency	:100KHz TYP	
Isolation Capacitance	:5pF TYP	@100KHz, 1V
Humidity	:95% MAX	
Isolation Voltage	:4200Vac	@Input to Output (60sec/0.5mA)
Isolation Voltage	:6000Vdc	@Input to Output (60sec/0.5mA)
Creepage distance clearance	:8mm MIN	
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

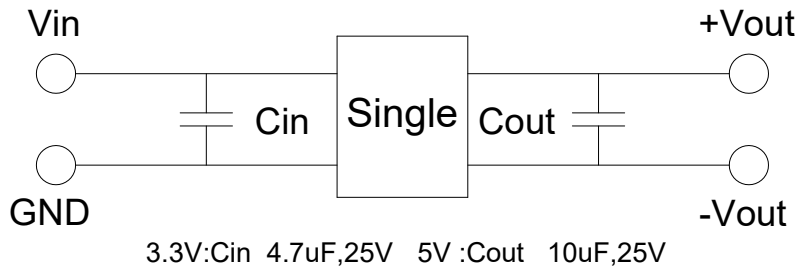


Part Number

S12D1M - 03 S 05 N A
 A B C D E F

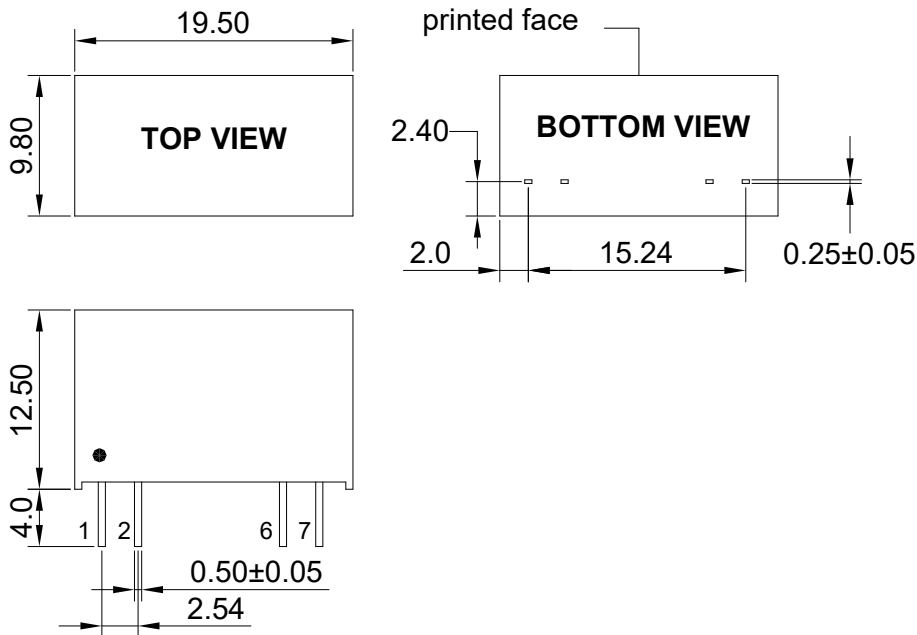
A:Series
 B:Input Voltage
 C:Single Output
 D:Output Voltage
 E:Unregulated(N)
 F:Types

Recommended Test Circuit



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

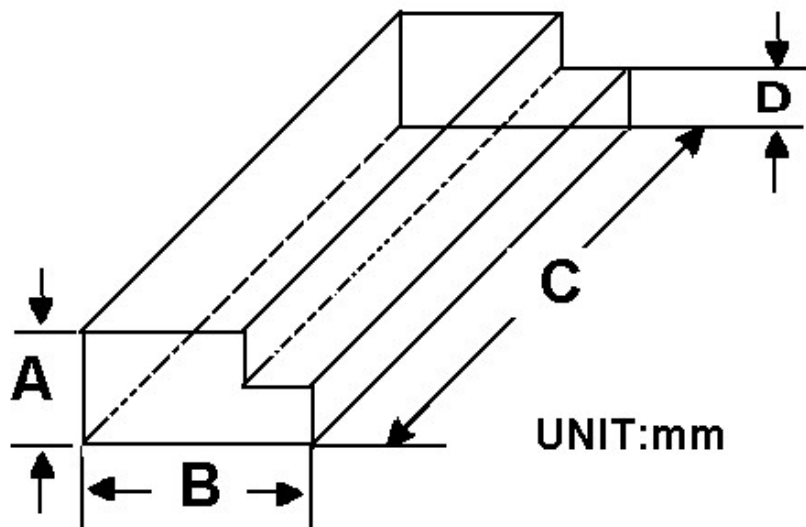
PIN	1	2	6	7
Single	+Vin	-Vin	-Vout	+Vout

Packing Information:

Weight----- 4.0grams/pcs

TUBE-----25pcs

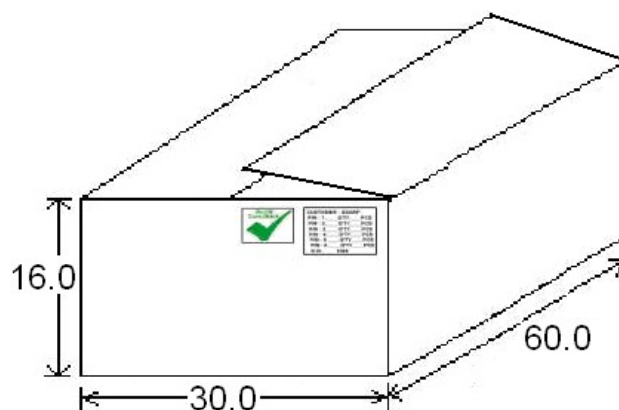
Weight: 135.5g per tube



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

Outer carton unit: 2400pcs/96Tube/box

Weight: 14.0kg per carton



SCHMID MULTITECH GMBH

TEL: +49-9403-9510-0 FAX: +49-9403-9510-22
 Weinbergstraße 60b, 93105 Tegernheim, Germany
 www.schmid-m.com info@schmid-m.com