

## Features

2WATT SMD PACKAGE

EFFICIENCY TO 75%

100% BURNED IN

UNREGULATED OUTPUT TYPES

## Input Specifications

Input Voltage :5Vdc

Input Voltage Range :±10%

## Output Specifications

Output Voltage :5Vdc

Output Voltage Accuracy :±5% Vout=4.75-5.25Vdc Vin=5Vdc

Output Current :400mA

Efficiency :75% TYP

Ripple / Noise :100mVp-p MAX 20MHz Bandwidth

Short Circuit Protection :Short term

Line Regulation :±1.2% TYP For 1.0% OF Vin

Load Regulation :±15% MAX 10% to 100% full load

## General Specifications

Operating Temperature Range :-40°C ~ +85°C

Storage Temperature :-40°C ~ +100°C

Switching Frequency :100KHz TYP

Humidity :95% MAX

Isolation Voltage :1500Vdc Input to Output ( 2sec/0.5mA )

Isolation Resistance :1000MΩ MIN 500Vdc

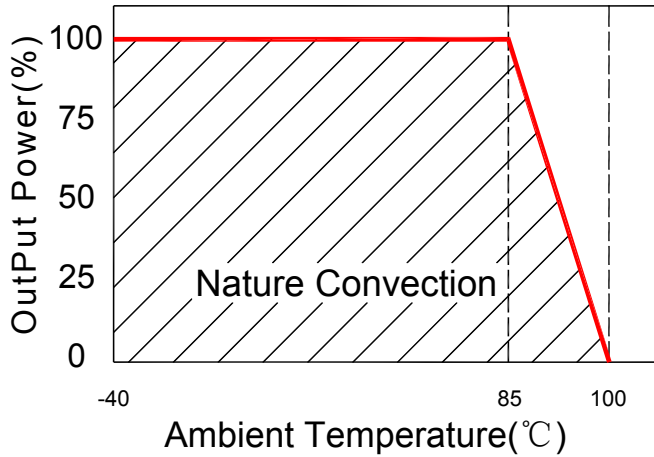
Cooling :Free air convection

MTBF :>3500000 Hours MIL-HDBK-217F 25°C,Ground Benign.

Case Material :DAP

Weight :1.2g TYP

**Temperature Derating Graph**

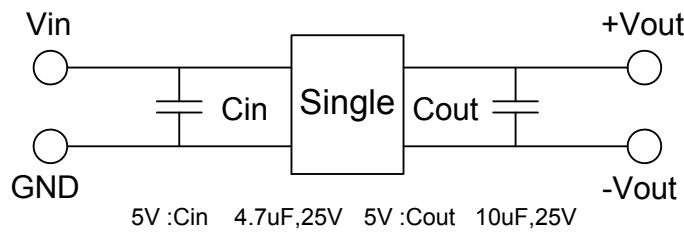


**Part Number**

AS2 A - 05 S 05 O  
1 2 3 4 5 6

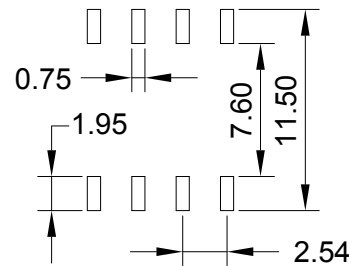
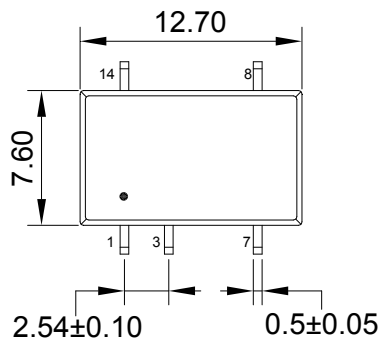
- 1:Series
- 2:Operating Temperature Range -40C ~ +100C
- 3:Input Voltage
- 4:Single Output
- 5:Output voltage
- 6:Case

**Recommended Test Circuit**

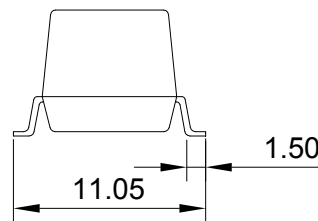
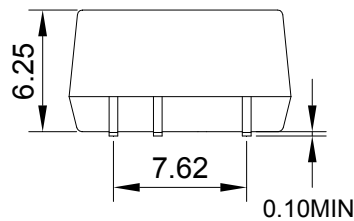


To make sure the product work at perfect operation status with full loading external capacitor is necessary and it is recommended to use high frequency low resistance electrolytic capacitor.

**Outline Dimensions**



SUGGESTED PAD LAYOUT



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

PIN	1	3	7	8	14
Single	-Vin	+Vin	-Vout	+Vout	NC

Our RoHS parts just can withstand IR Reflow peak temperature: 240degC MAX as the following profile:

Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate ( $T_{s_{max}}$ to $T_p$ )	3°C /second max.
Preheat -Temperature Min ( $T_{s_{min}}$ ) -Temperature Max ( $T_{s_{max}}$ ) -Time ( $t_{s_{min}}$ to $t_{s_{max}}$ )	150°C 200°C 60-180 seconds
<b>Time maintained above:</b> -Temperature ( $T_L$ ) -Time ( $t_L$ )	217°C 60-150 seconds
Peak/Classification Temperature ( $T_p$ )	240°C MAX
Time within 5°C of actual Peak Temperature ( $t_p$ )	20-40 seconds
Ramp-Down Rate	6°C/seconds max
Time 25°C to Peak Temperature	6 minutes max.

