AS2-05S05O

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℃ ~ +85℃	
Storage Temperature	:-40℃ ~ +100℃	
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℃,Ground Benign.
Case Material	:DAP	
Weight	:1.2g TYP	

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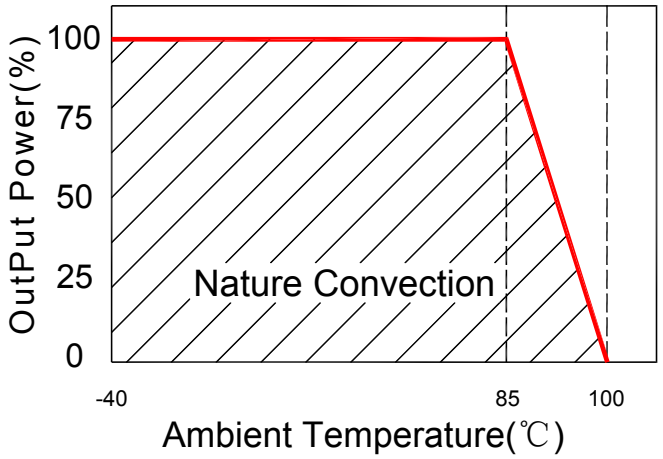
AS2-05S05O

Temperature Derating Graph

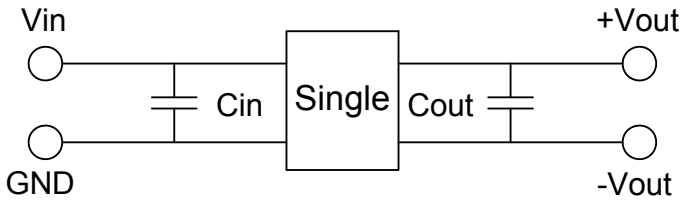


Part Number

AS2	- 05	S	05	O
1	2	3	4	5

1:Series
2:Input Voltage
3:Single Output
4:Output voltage
5:Case

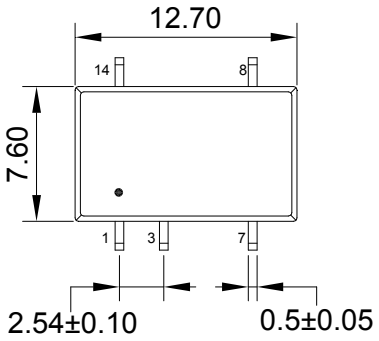
Recommended Test Circuit

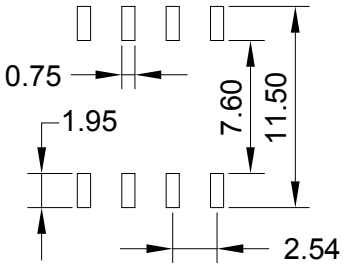


5V :Cin 4.7uF,25V 5V :Cout 10uF,25V

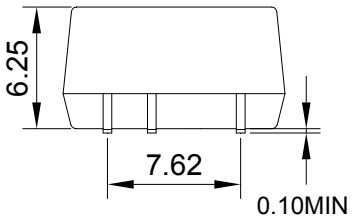
To make sure the product work at perfect operation status with full loading external capacitor is necessary and it is recommended to use high frequency low resistance electrolytic capacitor.

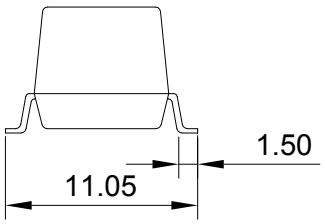
Outline Dimensions





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 (Ts $_{max}$ to Tp)	3°C /second max.
Preheat -Temperature Min (Ts $_{min}$) -Temperature Max (Ts $_{max}$) -Time (ts $_{min}$ to ts $_{max}$)	150°C 200°C 60-180 seconds
Time maintained above: -Temperature (T_L) -Time (t_L)	217°C 60-150 seconds
Peak/Classification Temperature (Tp)	240°C MAX
Time within 5°C of actual Peak Temperature (tp)	20-40 seconds
Ramp-Down Rate	6°C/seconds max
Time 25°C to Peak Temperature	6 minutes max.