

1000vdc Isolation Single Output 2 Watt Dc-Dc Converter

FEATURES:

4PIN SIP Package.

High Efficiency up to 85%.

Unregulated Output Types.

Internal SMD Construction

Operating Temperature:-40°C TO +85°C

No External Component Required Industry Standard Pinout

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Output Voltage	Output Current	Efficiency
	Vdc	mA	%
AS2-xxS05B	5	400	70
AS2-xxS09B	9	222	75
AS2-xxS12B	12	167	80
AS2-xxS15B	15	133	80
AS2-xxS24B	24	84	85

Note:1."XX" Is Input Voltage : 05=5Vdc,09=9Vdc,12=12Vdc,15=15Vdc,24=24Vdc.

2.The input voltage increases, there will be an increase in efficiency.

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	Vo, Io Nom			± 10	%
Filter	Capacitor				

Output Specifications

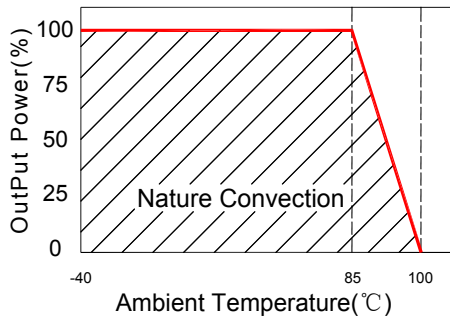
Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	100% full load			± 5	%
Short Circuit Protection	Short Term			1 Sec	
Line Regulation	For 1.0% OF Vin		1.2		%
Load Regulation	3.3V,5V(10% To 100% F.L)			15	%
Load Regulation	9V,12V,15V,24V (10% To 100% F.L)			10	%
Ripple & Noise	BW=DC To 20MHZ			100	mVp-p
Transient response setting time	50% load step change		350		us

General Specifications

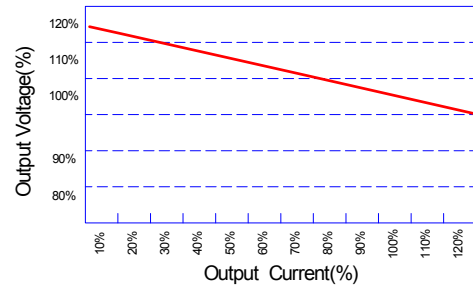
Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching Frequency	Full load,nominal input		100		KHz
Operating Temperature		-40		85	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	DAP				
MTBF	MIL-HDBK-217F@25°C	3500000			Hours
Weight			1.8		g
Dimensions			11.50x7.50x10.00		mm

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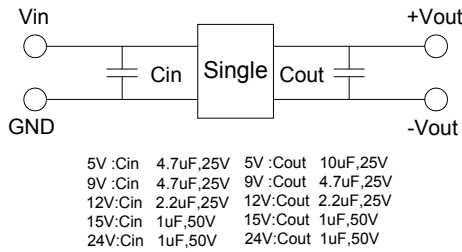
Temperature Derating Graph



Tolerance Envelope Graph



Recommended Test Circuit

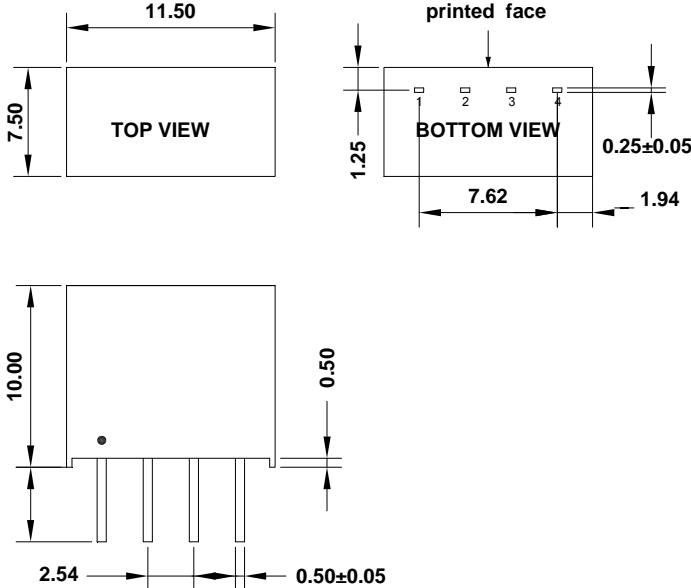


Part Number

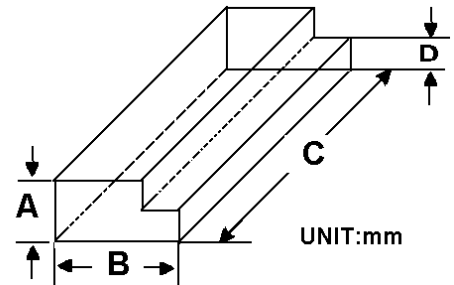
AS2 - 05 D 05 B
1 2 3 4 5

- 1:Series
- 2:Input Voltage
- 3:(S) Single Output
- 4:Output voltage
- 5:Case B 11.50x7.50x10.00

Markings and Dimensions



Packaging



Size(mm)			
A	B	C	D
9.50	16.50	5.22	5.00

PIN Connection

PIN	1	2	3	4
Single	-Vin	+Vin	-Vout	+Vout