

1W DC-DC CONVERTER

Туре	V _i	V _o	l _o
GS1T5-5	5 V	5 V	250 mA

DESCRIPTION

The GS1T5-5 is a 1W DC-DC converter designed to provide an isolated 5V/250mA power source.

The module operates from a 5V input source and it offers 2500Vpc isolation.



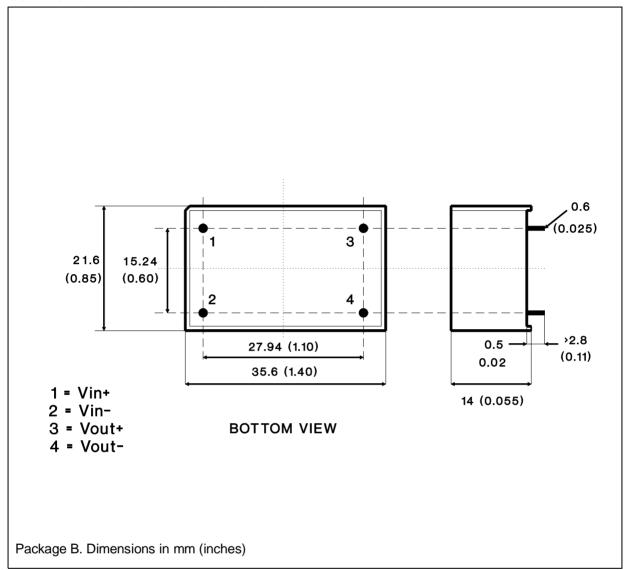
ELECTRICAL CHARACTERISTICS (Tamb. = 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions		Min	Тур	Max	Unit
Vi	Input Voltage	V ₀ = 5V	Io = 0 to 250mA	4.50	5	5.50	V
lir	Input Reflected Current	V _i = 5V V _o = 5V	I _O = 0 to 250mA		15	30	mApp
Vo	Output Voltage	Vi = 4.5 to 5.5V	$I_0 = 0$ to 250mA	4.75	5	5.25	V
lo	Output Current*	Vi = 4.5 to 5.5V	$V_0 = 5V$	0		250	mA
δVol	Line Regulation	Vi = 4.5 to 5.5V	$I_0 = 250 \text{mA}$			5	mV
δVοο	Load Regulation	Vi = 5V	Io = 20 to 250mA			5	mV
Vor	Output Ripple Voltage	Vi = 5V V _O = 5V	I _O = 40 to 250mA		60	80	mVpp
Vis	Isolation Voltage	Input to Output		2500			VDC
η	Efficiency	Vi = 5V Vo = 5V	I _O = 250mA	70	73		%
Тор	Operating Ambient Temperature Range			- 25		+75	°C
T _{stg}	Storage Temperature Range			- 40		+85	°C

^{*} Note: when output current is less than 20mA, output ripple voltage increases due to discontinuous operation.

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CONNECTION DIAGRAM AND MECHANICAL DATA



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