

1W DC-DC CONVERTER

Type	V _i	V _o	I _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 2500V_{DC} isolation.

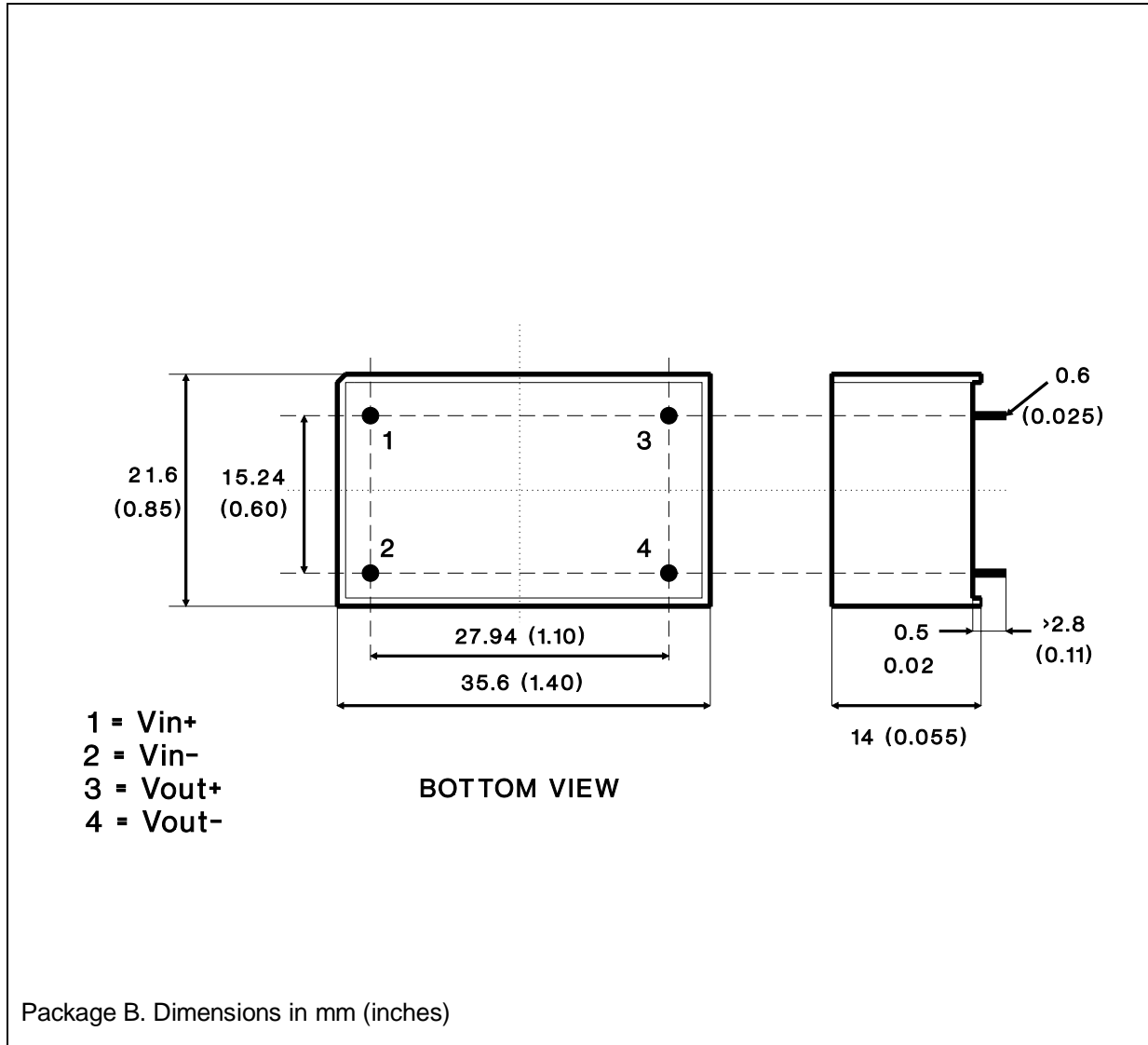


ELECTRICAL CHARACTERISTICS (T_{amb.} = 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _i	Input Voltage	V _o = 5V I _o = 0 to 250mA	4.50	5	5.50	V
I _{ir}	Input Reflected Current	V _i = 5V V _o = 5V I _o = 0 to 250mA		15	30	mApp
V _o	Output Voltage	V _i = 4.5 to 5.5V I _o = 0 to 250mA	4.75	5	5.25	V
I _o	Output Current*	V _i = 4.5 to 5.5V V _o = 5V	0		250	mA
δV _{OL}	Line Regulation	V _i = 4.5 to 5.5V I _o = 250mA			5	mV
δV _{OO}	Load Regulation	V _i = 5V I _o = 20 to 250mA			5	mV
V _{or}	Output Ripple Voltage	V _i = 5V V _o = 5V I _o = 40 to 250mA		60	80	mVpp
V _{is}	Isolation Voltage	Input to Output	2500			VDC
η	Efficiency	V _i = 5V V _o = 5V I _o = 250mA	70	73		%
T _{op}	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.

CONNECTION DIAGRAM AND MECHANICAL DATA



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