

## 1W DC-DC CONVERTER

Type	V <sub>i</sub>	V <sub>o</sub>	I <sub>o</sub>
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<sub>DC</sub> isolation.

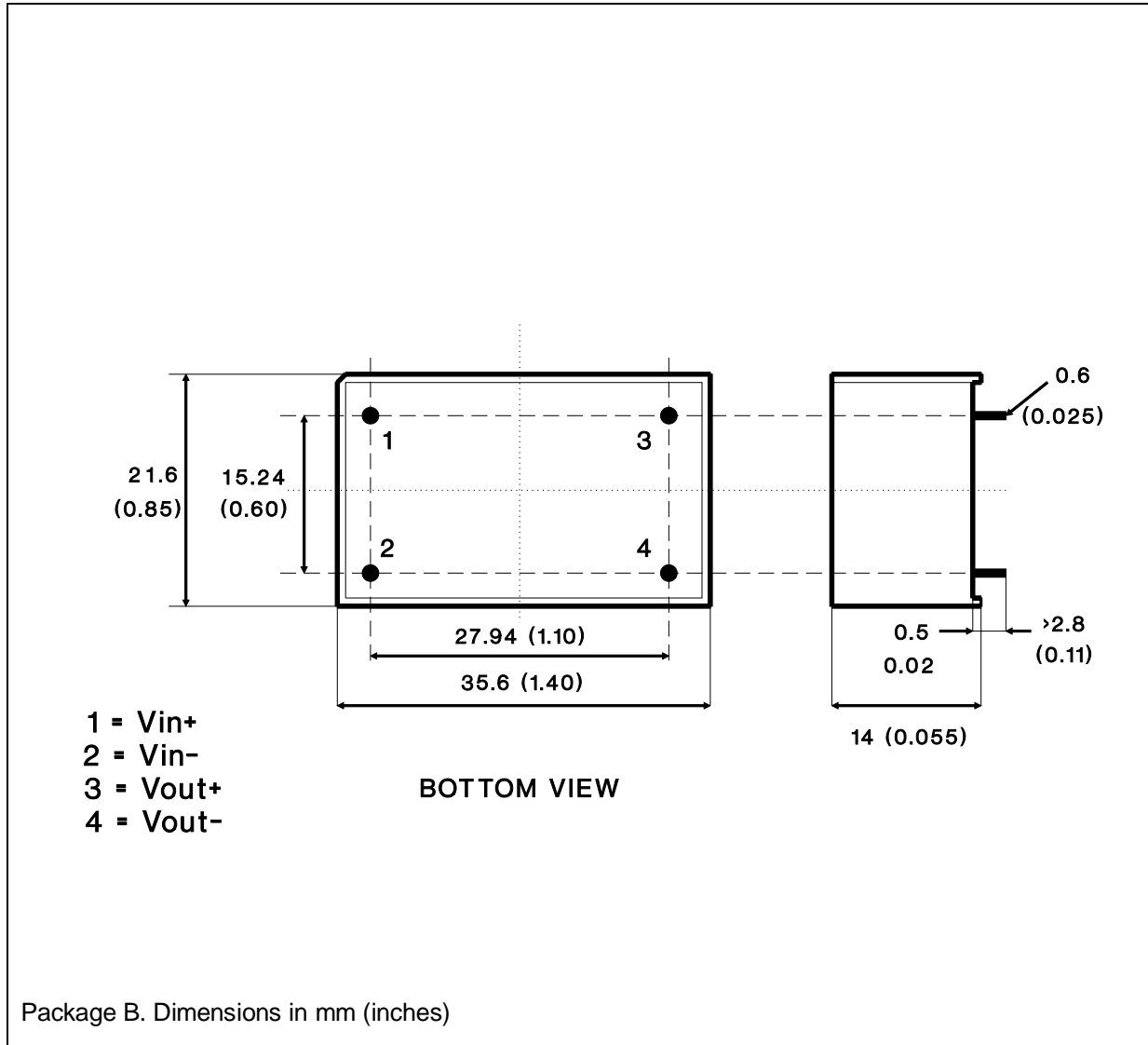


### ELECTRICAL CHARACTERISTICS (T<sub>amb.</sub> = 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V <sub>i</sub>	Input Voltage	V <sub>o</sub> = 5V I <sub>o</sub> = 0 to 250mA	4.50	5	5.50	V
I <sub>ir</sub>	Input Reflected Current	V <sub>i</sub> = 5V V <sub>o</sub> = 5V I <sub>o</sub> = 0 to 250mA		15	30	mApp
V <sub>o</sub>	Output Voltage	V <sub>i</sub> = 4.5 to 5.5V I <sub>o</sub> = 0 to 250mA	4.75	5	5.25	V
I <sub>o</sub>	Output Current*	V <sub>i</sub> = 4.5 to 5.5V V <sub>o</sub> = 5V	0		250	mA
δV <sub>OL</sub>	Line Regulation	V <sub>i</sub> = 4.5 to 5.5V I <sub>o</sub> = 250mA			5	mV
δV <sub>OO</sub>	Load Regulation	V <sub>i</sub> = 5V I <sub>o</sub> = 20 to 250mA			5	mV
V <sub>or</sub>	Output Ripple Voltage	V <sub>i</sub> = 5V V <sub>o</sub> = 5V I <sub>o</sub> = 40 to 250mA		60	80	mVpp
V <sub>is</sub>	Isolation Voltage	Input to Output	2500			VDC
η	Efficiency	V <sub>i</sub> = 5V V <sub>o</sub> = 5V I <sub>o</sub> = 250mA	70	73		%
T <sub>op</sub>	Operating Ambient Temperature Range		-25		+75	°C
T <sub>stg</sub>	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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