



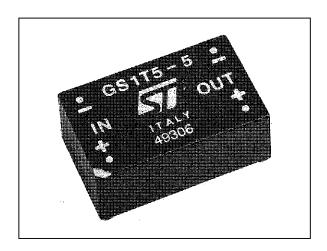
## **1W DC-DC CONVERTER**

Туре	Vi	Vo	l <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 2500VDC isolation.



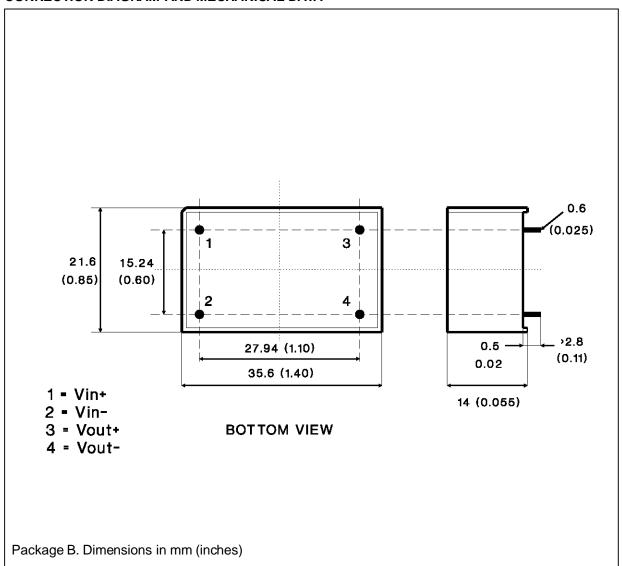
## **ELECTRICAL CHARACTERISTICS** (T<sub>amb.</sub>= 25° C unless otherwise specified)

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

<sup>\*</sup> 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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