

GS5T48-5

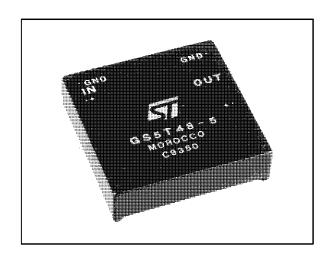
5 W DC-DC CONVERTER

Туре	V _i	٧o	lo
GS5T48-5	40 to 60 V	5 V	1 A

DESCRIPTION

The GS5T48-5 is a 5W DC-DC converter designed to provide a 5V/1A isolated power source in a metal package.

The module features a wide input voltage range (40 to 60V), low reflected input current and continuous short-circuit protection.

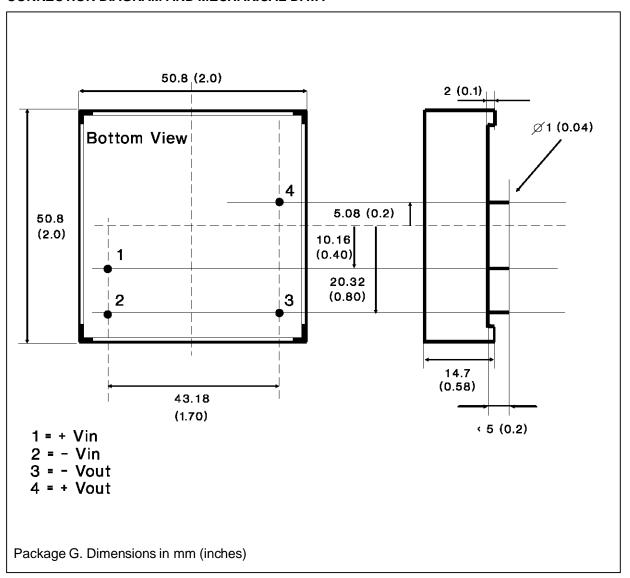


ELECTRICAL CHARACTERISTICS (T_{amb.}= 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
Vi	Input Voltage	$V_0 = 5V$ $I_0 = 50 \text{ to } 1000 \text{mA}$	40	48	60	V
li	Input Current	$V_i = 40 \text{ to } 60V$ $I_0 = 1000\text{mA}$			115	mA
lir	Input Reflected Current	V _i = 48V V _o = 5V I _o = 1000mA		10	15	mApp
Vo	Output Voltage	V _i = 40 to 60V I _O = 50 to 1000mA	4.85	5.00	5.15	٧
Vor	Output Ripple Voltage	Vi = 48V lo = 1000mA BW = 5Hz to 20MHz		20	35	mVpp
lo	Output Current	Vi = 40 to 60V Vo = 5V	50		1000	mA
losc	Output Short-circuit Current	Vi = 48V			2.3	А
Vis	Isolation Voltage		500			V _{DC}
f _S	Switching Frequency	Vi = 40 to 60V I _O = 50 to 1000mA		100		kHz
η	Efficiency	V _i = 48V I _O = 1000mA	70	72		%
Тор	Operating Case Temperature Range		- 25		+85	°C
Tstg	Storage Temperature Range		- 40	-	+105	°C

June 1994 1/2

CONNECTION DIAGRAM AND MECHANICAL DATA



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