

# GS5T48-5

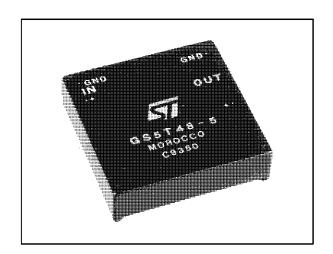
## **5 W DC-DC CONVERTER**

Туре	V <sub>i</sub>	Vo	l <sub>o</sub>
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.

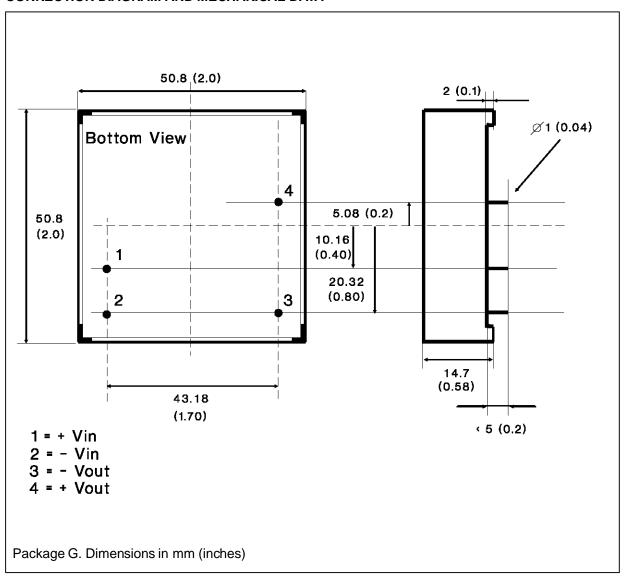


### **ELECTRICAL CHARACTERISTICS** (T<sub>amb.</sub>= 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
Vi	Input Voltage	V <sub>O</sub> = 5V I <sub>O</sub> = 50 to 1000mA	40	48	60	V
li	Input Current	V <sub>i</sub> = 40 to 60V I <sub>O</sub> = 1000mA			115	mA
lir	Input Reflected Current	Vi = 48V Vo = 5V Io= 1000mA		10	15	mApp
Vo	Output Voltage	V <sub>i</sub> = 40 to 60V I <sub>O</sub> = 50 to 1000mA	4.85	5.00	5.15	V
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 <sub>DC</sub>
f <sub>S</sub>	Switching Frequency	Vi = 40 to 60V I <sub>O</sub> = 50 to 1000mA		100		kHz
η	Efficiency	V <sub>i</sub> = 48V I <sub>O</sub> = 1000mA	70	72		%
Тор	Operating Case Temperature Range		- 25		+85	°C
T <sub>stg</sub>	Storage Temperature Range		- 40		+105	°C

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#### **CONNECTION DIAGRAM AND MECHANICAL DATA**



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