

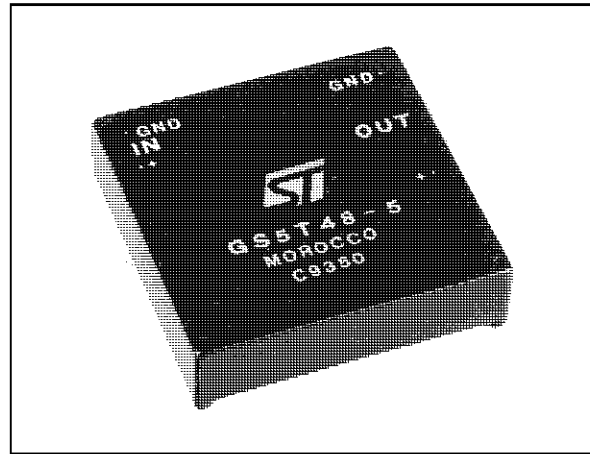
## 5 W DC-DC CONVERTER

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

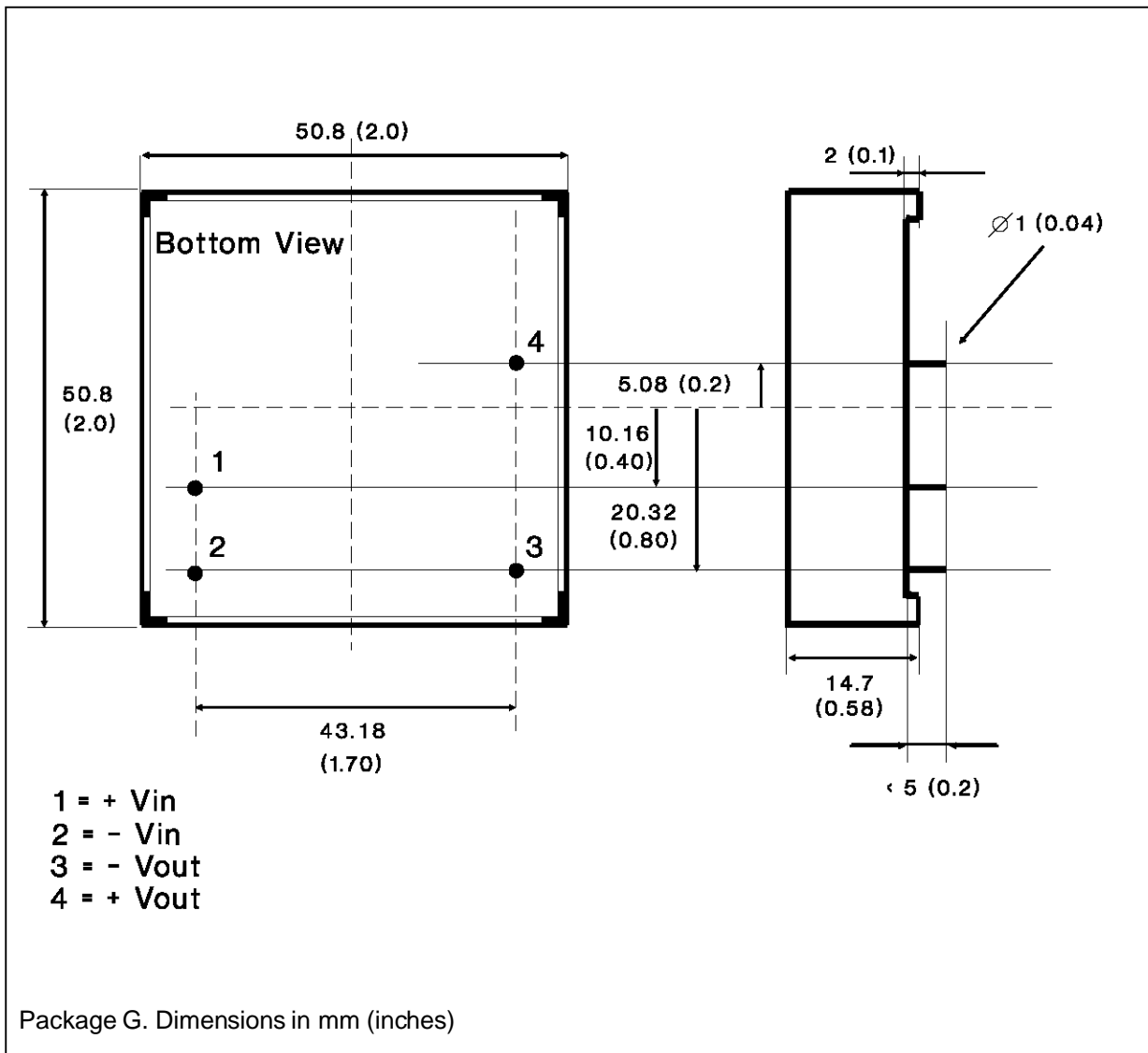
The module features a wide input voltage range (40 to 60V), low reflected input current and continuous short-circuit protection.



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

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V <sub>i</sub>	Input Voltage	V <sub>o</sub> = 5V I <sub>o</sub> = 50 to 1000mA	40	48	60	V
I <sub>i</sub>	Input Current	V <sub>i</sub> = 40 to 60V I <sub>o</sub> = 1000mA			115	mA
I <sub>ir</sub>	Input Reflected Current	V <sub>i</sub> = 48V V <sub>o</sub> = 5V I <sub>o</sub> = 1000mA		10	15	mApp
V <sub>o</sub>	Output Voltage	V <sub>i</sub> = 40 to 60V I <sub>o</sub> = 50 to 1000mA	4.85	5.00	5.15	V
V <sub>or</sub>	Output Ripple Voltage	V <sub>i</sub> = 48V I <sub>o</sub> = 1000mA BW = 5Hz to 20MHz		20	35	mVpp
I <sub>o</sub>	Output Current	V <sub>i</sub> = 40 to 60V V <sub>o</sub> = 5V	50		1000	mA
I <sub>osc</sub>	Output Short-circuit Current	V <sub>i</sub> = 48V			2.3	A
V <sub>is</sub>	Isolation Voltage		500			V <sub>DC</sub>
f <sub>s</sub>	Switching Frequency	V <sub>i</sub> = 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		%
T <sub>op</sub>	Operating Case Temperature Range		-25		+85	°C
T <sub>stg</sub>	Storage Temperature Range		-40		+105	°C

CONNECTION DIAGRAM AND MECHANICAL DATA



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