

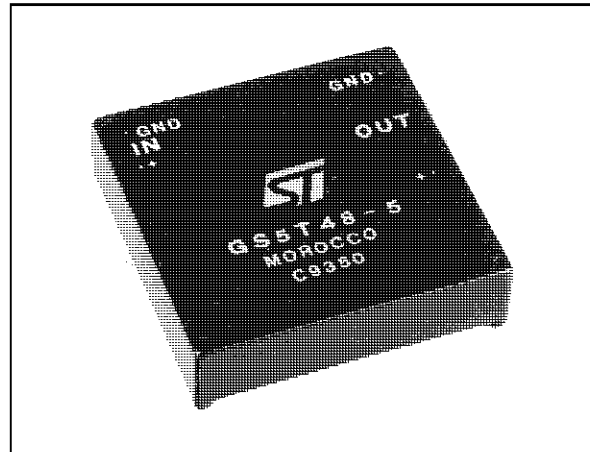
5 W DC-DC CONVERTER

Type	V _i	V _o	I _o
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.

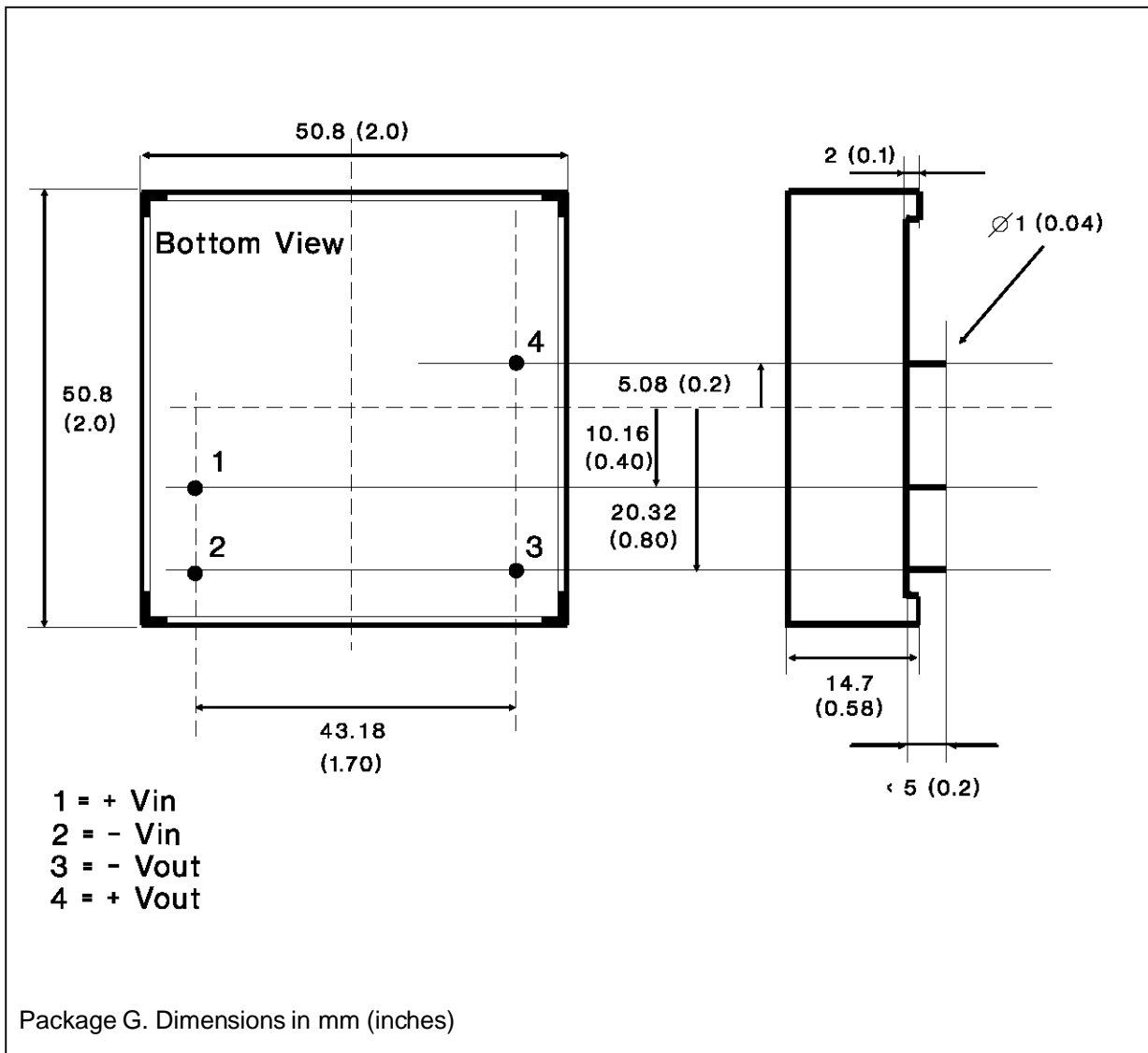
The module features a wide input voltage range (40 to 60V), low reflected input current and continuous short-circuit protection.



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

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _i	Input Voltage	V _o = 5V I _o = 50 to 1000mA	40	48	60	V
I _i	Input Current	V _i = 40 to 60V I _o = 1000mA			115	mA
I _{ir}	Input Reflected Current	V _i = 48V V _o = 5V I _o = 1000mA		10	15	mApp
V _o	Output Voltage	V _i = 40 to 60V I _o = 50 to 1000mA	4.85	5.00	5.15	V
V _{or}	Output Ripple Voltage	V _i = 48V I _o = 1000mA BW = 5Hz to 20MHz		20	35	mVpp
I _o	Output Current	V _i = 40 to 60V V _o = 5V	50		1000	mA
I _{osc}	Output Short-circuit Current	V _i = 48V			2.3	A
V _{is}	Isolation Voltage		500			V _{DC}
f _s	Switching Frequency	V _i = 40 to 60V I _o = 50 to 1000mA		100		kHz
η	Efficiency	V _i = 48V I _o = 1000mA	70	72		%
T _{op}	Operating Case Temperature Range		- 25		+85	°C
T _{stg}	Storage Temperature Range		- 40		+105	°C

CONNECTION DIAGRAM AND MECHANICAL DATA



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