

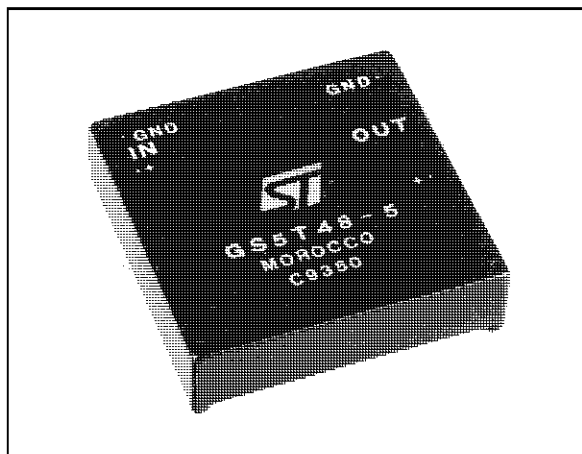
5 W DC-DC CONVERTER

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.

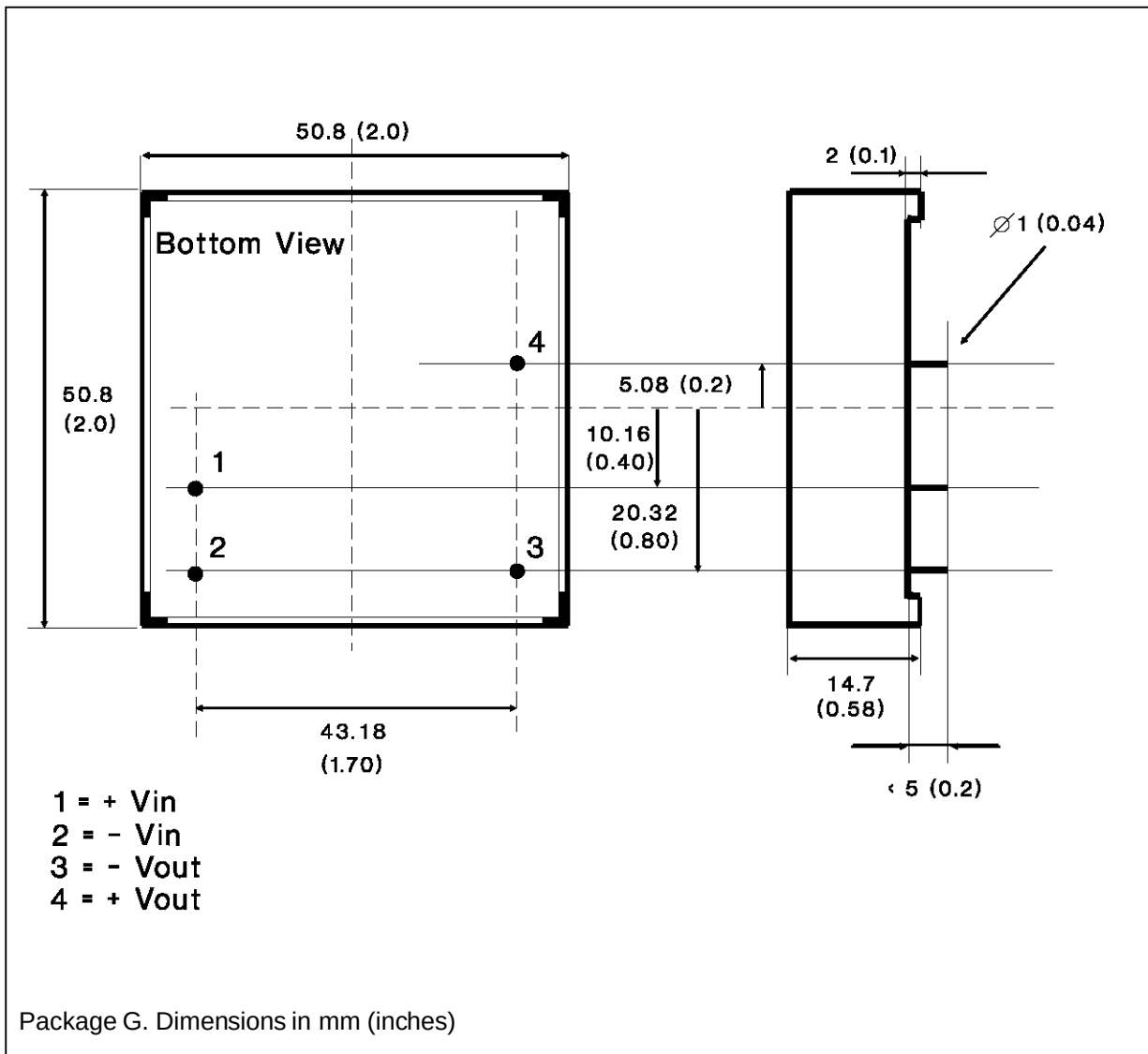
The module features a wide input voltage range (40 to 60V), low reflected input current and continuous short-circuit protection.



ELECTRICAL CHARACTERISTICS ($T_{amb.} = 25^\circ \text{C}$ 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 $60V$ $I_o = 1000\text{mA}$			115	mA
I_{ir}	Input Reflected Current	$V_i = 48V$ $V_o = 5V$ $I_o = 1000\text{mA}$		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	$V_i = 48V$ $I_o = 1000\text{mA}$ 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	$V_i = 48V$ $I_o = 1000\text{mA}$	70	72		%
T_{op}	Operating Case Temperature Range		- 25		+85	$^\circ\text{C}$
T_{stg}	Storage Temperature Range		- 40		+105	$^\circ\text{C}$

CONNECTION DIAGRAM AND MECHANICAL DATA



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