

4 W DC-DC CONVERTER

Type	V _i	V _o	I _o
GS4T48-5	38 to 60 V	5 V	800 mA

DESCRIPTION

The GS4T48-5 is a 4W DC-DC converter designed to provide a 5V/800mA isolated power source.

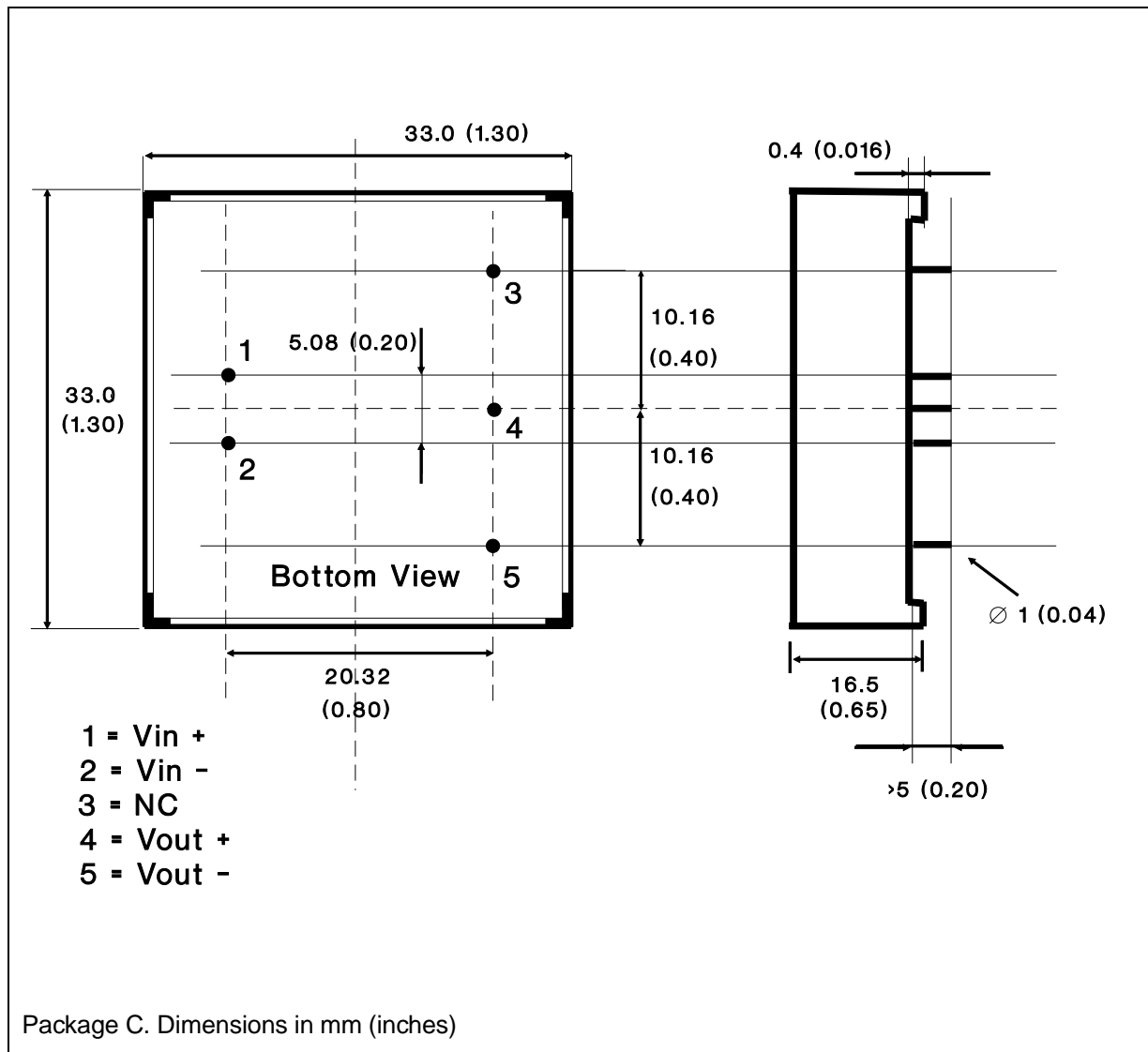
The module features a wide input voltage range (38 to 60V), low reflected input current and continuous short-circuit protection. It is certified by UL, CSA (level 3) and TUV as having SELV output when provided with a SELV input.



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 800mA	38	48	60	V
I _i	Input Current	V _i = 38 to 60V I _o = 800mA			140	mA
I _{ir}	Input Reflected Current	V _i = 48V V _o = 5V I _o = 800mA		20	30	mApp
V _o	Output Voltage	V _i = 38 to 60V I _o = 50 to 800mA	4.8	5	5.2	V
V _{or}	Output Ripple Voltage	V _i = 48V I _o = 800mA BW = 5Hz to 20MHz		30	50	mVpp
δVOL	Line Regulation	V _i = 38 to 60V I _o = 800mA		1	2	mV/V
δV _{OO}	Load Regulation	V _i = 48V I _o = 50 to 800mA		50	75	mV/A
I _o	Output Current	V _i = 38 to 60V V _o = 5V	50		800	mA
I _{osc}	Output Short-circuit Current	V _i = 48V			2	A
V _{is}	Isolation Voltage		500			V _{DC}
f _s	Switching Frequency	V _i = 38 to 60V I _o = 50 to 800mA	50		200	kHz
η	Efficiency	V _i = 48V I _o = 800mA	70	73		%
T _{op}	Operating Ambient Temperature Range	Still Air	0		+55	°C
T _{op}	Operating Ambient Temperature Range	Forced ventilation, air speed = 100 LFM	0		+65	°C
T _{stg}	Storage Temperature Range		-40		+85	°C

CONNECTION DIAGRAM AND MECHANICAL DATA



SAFETY APPROVALS

The converter is agency certified to the following safety requirements:

Agency	Requirements	File Number
UL	UL-STD-1950	E141284
CSA	CSA-STD-C22.2 No. 234	LR 99794-3
TUV	EN 60950 DIN VDE 0805	R 9172410

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