

GS4T48-5

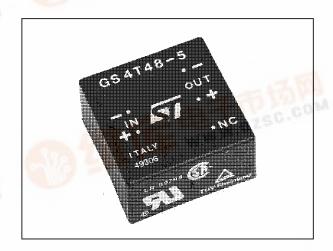
4 W DC-DC CONVERTER

Туре	Vi	V _o	l _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.

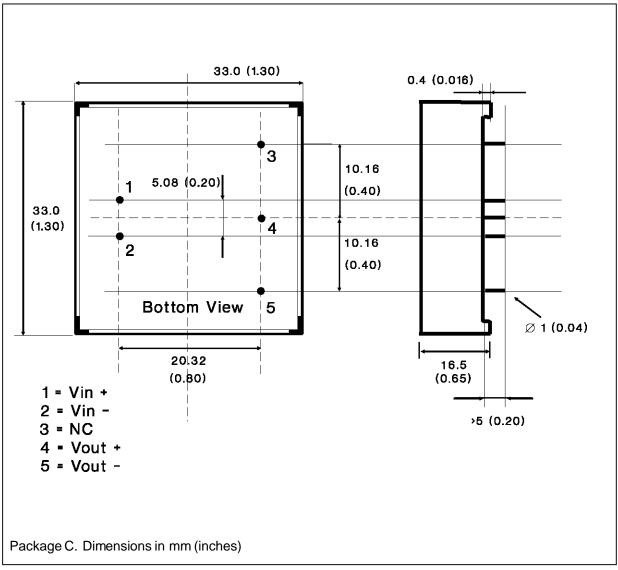


ELECTRICAL CHARACTERISTICS (T_{amb.}= 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
Vi	Input Voltage	V _O = 5V I _O = 50 to 800mA	38	48	60	V
lį	Input Current	V _i = 38 to 60V I _O = 800mA			140	mA
lir	Input Reflected Current	Vi = 48V Vo = 5V Io = 800mA		20	30	mApp
Vo	Output Voltage	V _i = 38 to 60V I _O = 50 to 800mA	4.8	5	5.2	V
Vor	Output Ripple Voltage	Vi = 48V Io = 800mA BW = 5Hz to 20MHz		30	50	mVpp
δVol	Line Regulation	Vi = 38 to 60V I _O = 800mA	14	1	2	mV/V
δVoo	Load Regulation	Vi = 48V I ₀ = 50 to 800mA		50	75	mV/A
lo	Output Current	$V_i = 38 \text{ to } 60V$ $V_O = 5V$	50	M.M.	800	mA
losc	Output Short-circuit Current	Vi = 48V			2	А
Vis	Isolation Voltage	TO COM	500			VDC
f _S	Switching Frequency	Vi = 38 to 60V I _O = 50 to 800mA	50		200	kHz
η	Efficiency	Vi = 48V	70	73		%
Тор	Operating Ambient Temperature Range	Still Air	0		+55	°C
Тор	Operating Ambient Temperature Range	Forced ventilation, air speed = 100 LFM	0		+65	°C
Tstg	Storage Temperature Range		- 40		+85	°C

luna 1004

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

 [®] UL is a registered trademark of UNDERWRITERS LABORATORIES inc.
 ® CSA is a registered trademark of CANADIAN STANDARDS ASSOCIATION.
 ® TUV is a registered trademark of TUV Rheinland.

2/2

Information furnished is believed to be accurate and reliable. However, SGS-THOMSON Microelectronics assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of SGS-THOMSON Microelectronics. Specification mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information previously supplied. SGS-THOMSON Microelectronics products are not authorized for use as critical components in life support devices or systems without express written approval of SGS-THOMSON Microelectronics.

© 1994 SGS-THOMSON Microelectronics – All Rights Reserved

® UL is a registered trademark of UNDERWRITERS LABORATORIES inc.
 ® CSA is a registered trademark of CANADIAN STANDARDS ASSOCIATION.
 ® TUV is a registered trademark of TUV Rheinland.

SGS-THOMSON Microelectronics GROUP OF COMPANIES

Australia - Brazil - China - France - Germany - Hong Kong - Italy - Japan - Korea - Malaysia - Malta - Morocco - The Netherlands - Singapore - Spain - Sweden - Switzerland - Taiwan - Thailand - United Kingdom - U.S.A.

3/