

2 W DC-DC CONVERTER

Type	V _i	V _o	I _o
GS2T5-5	5 V	5 V	400 mA

DESCRIPTION

The GS2T5-5 is a 2W DC-DC converter designed to provide an isolated 5V/400mA power source.

The module operates from a 5V input source and it offers 1500V_{DC} isolation.

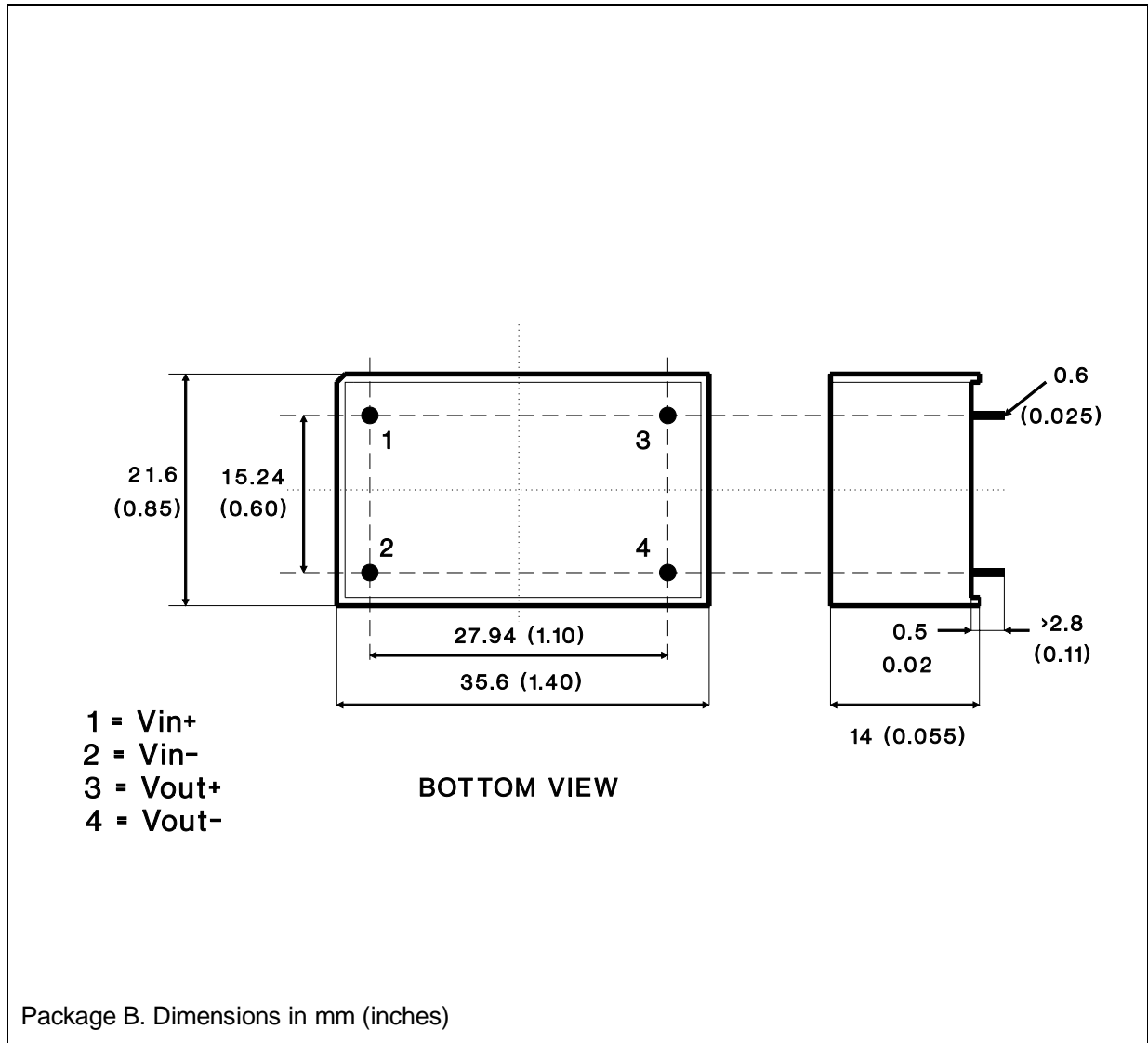


ELECTRICAL CHARACTERISTICS (T_{amb.} = 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _i	Input Voltage	V _o = 5V I _o = 0 to 400mA	4.50	5	5.50	V
I _{ir}	Input Reflected Current	V _i = 5V V _o = 5V I _o = 400mA		25	40	mApp
V _o	Output Voltage	V _i = 4.5 to 5.5V I _o = 0 to 400mA	4.75	5	5.25	V
V _{or}	Output Ripple Voltage	V _i = 5V V _o = 5V I _o = 40 to 400mA		90	120	mVpp
δV _{OL}	Line Regulation	V _i = 4.5 to 5.5V I _o = 400mA			5	mV
δV _{OO}	Load Regulation	V _i = 5V I _o = 40 to 400mA			10	mV
I _o	Output Current*	V _i = 4.5 to 5.5V V _o = 5V	0		400	mA
V _{is}	Isolation Voltage	Input to Output	1500			VDC
η	Efficiency	V _i = 5V V _o = 5V I _o = 400mA	67	70		%
T _{op}	Operating Ambient Temperature Range		0		+70	°C
T _{stg}	Storage Temperature Range		-40		+85	°C

* Note: when output current is less than 40mA, output ripple voltage increases due to discontinuous operation.

CONNECTION DIAGRAM AND MECHANICAL DATA



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

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.