

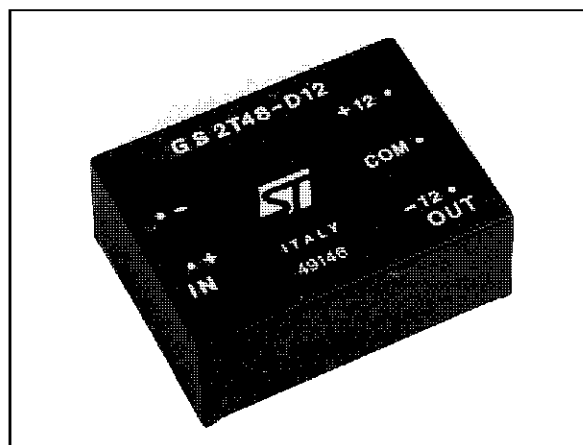
2W DUAL OUTPUT DC-DC CONVERTER

Type	V _{in}	V _{out}	I _{out}
GS2T48-D12	38 to 60 V	±12 V	±100mA

DESCRIPTION

The GS2T48-D12 is a 2.4W DC-DC converter designed to provide an isolated +12V/100mA and -12V/100mA power source.

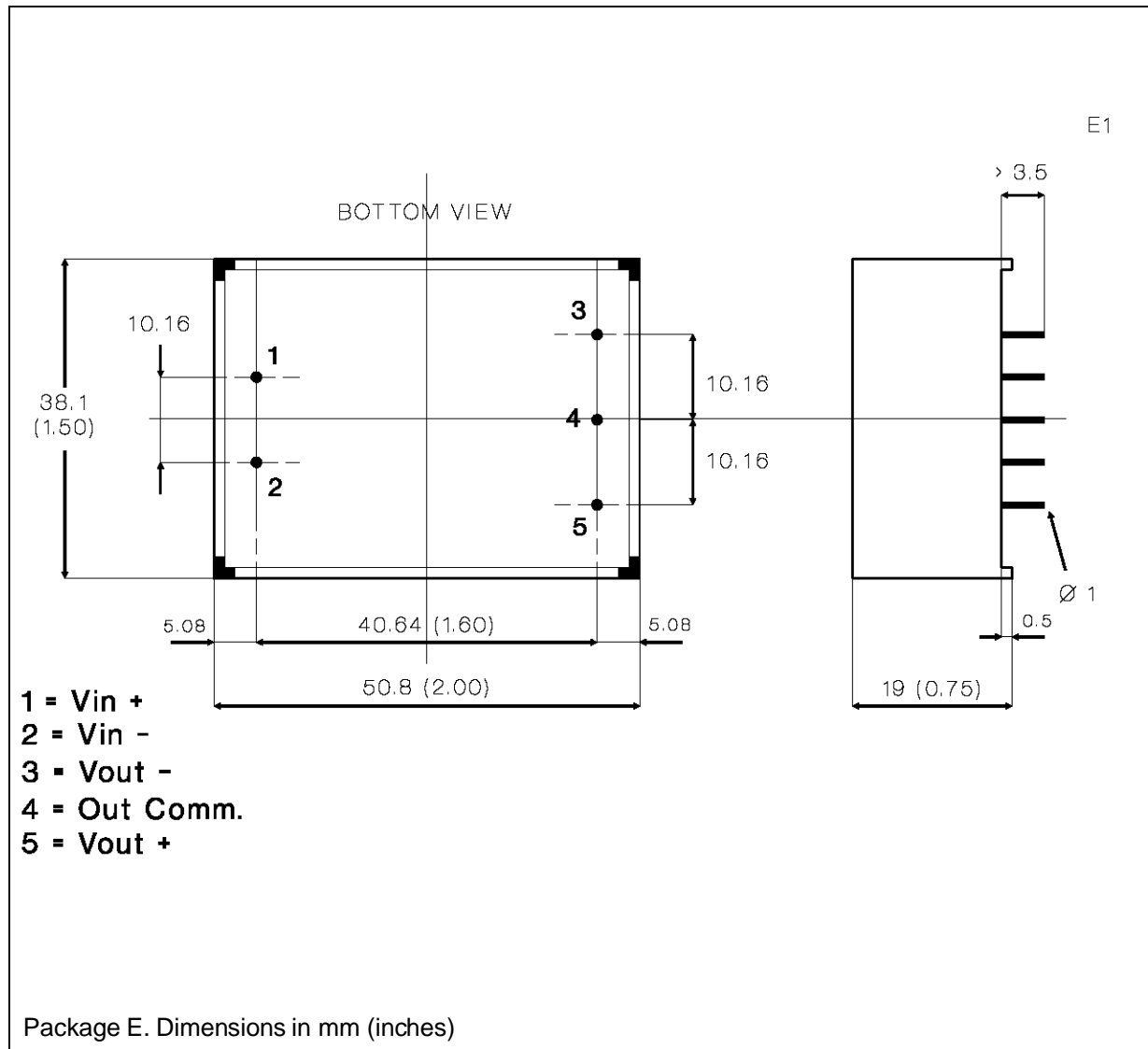
The module operates from wide input range (38 to 60V) and offers low reflected input current and continuous short-circuit protection.



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

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _i	Input Voltage	V _{o1} = +12V V _{o2} = -12V I _{o1} = 0 to 100mA I _{o2} = 0 to -100mA	38	48	60	V
I _{ir}	Input Reflected Current	V _i = 38 to 60V Full Load		3	5	mApp
V _{o1}	Output Voltage 1	V _i = 38 to 60V I _{o1} = 0 to 100mA I _{o2} = 0 to -100mA	11.2	12.0	12.8	V
V _{o2}	Output Voltage 2	V _i = 38 to 60V I _{o2} = 0 to -100mA I _{o1} = 0 to 100mA	-11.2	-12.0	-12.8	V
V _{or1}	Output Ripple Voltage 1	V _i = 38 to 60 I _{o1} = 100mA		30	50	mVrms
V _{or2}	Output Ripple Voltage 2	V _i = 38 to 60 I _{o2} = -100mA		30	50	mVrms
I _{o1}	Output Current 1	V _i = 38 to 60V V _{o1} = 12V	0		100	mA
I _{o2}	Output Current 2	V _i = 38 to 60V V _{o2} = -12V	0		-100	mA
V _{is}	Isolation Voltage		500			V _{dc}
f _s	Switching Frequency	V _i = 48V	50	100	150	kHz
η	Efficiency	V _i = 48V Full Load	70	73		%
T _{op}	Operating Ambient Temperature Range		0		+70	°C
T _{stg}	Storage Temperature Range		-40		+85	°C

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