

2W LAN DC-DC CONVERTER

Type	V_i	V_o	I_o
GS2T12-9	12 V	- 9 V	- 250 mA

DESCRIPTION

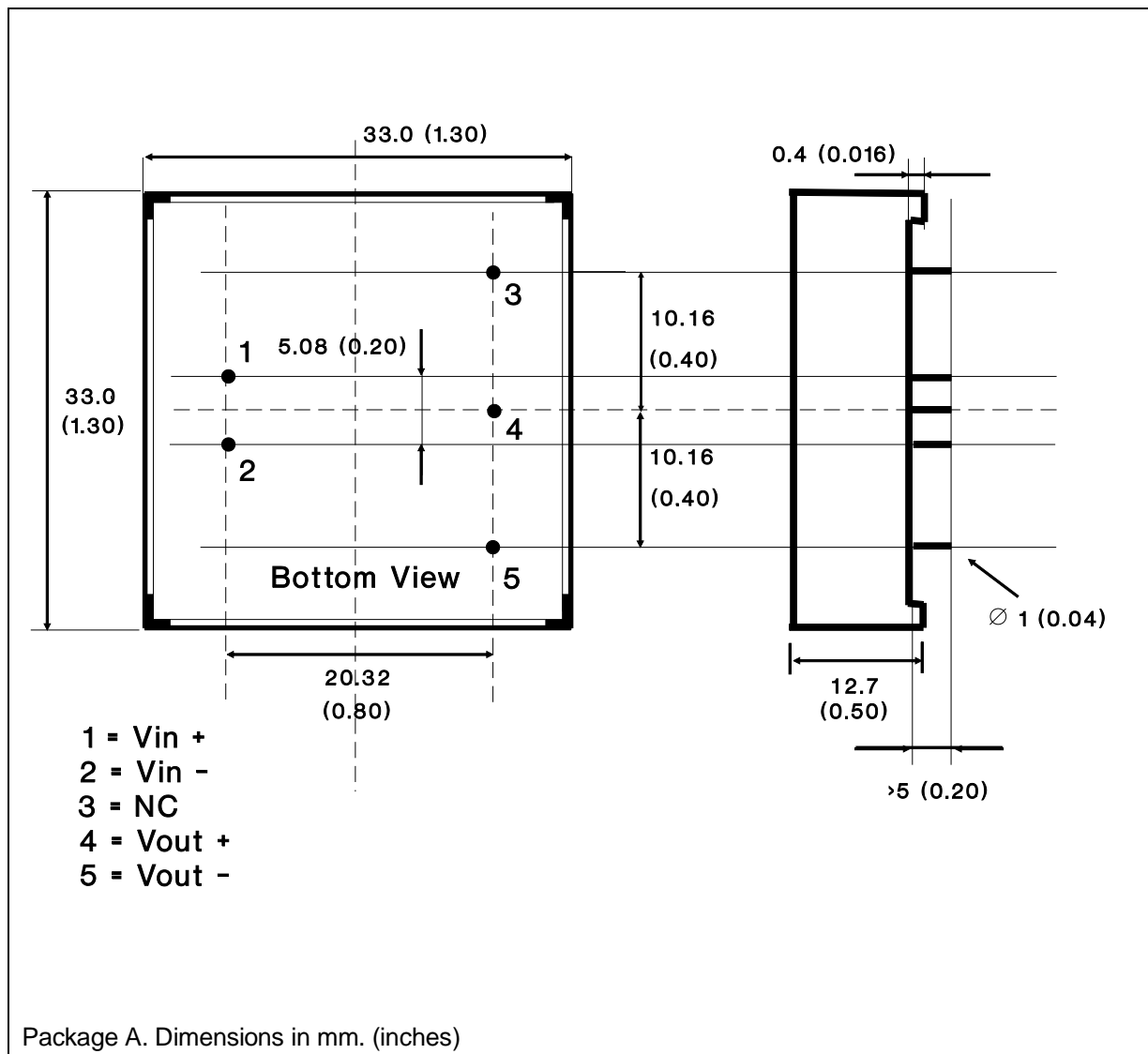
The GS2T12-9 is a 2.25W DC-DC converter designed to provide power, voltage regulation and isolation for Local Area Network (CHEAPERNET and ETHERNET) transceivers from a wide range of input voltage, according to IEEE 802.3 Standard.



ELECTRICAL CHARACTERISTICS ($T_{amb.} = 25^{\circ}C$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V_i	Input Voltage	$V_o = -9V$ $I_o = -70$ to $-250mA$	11.28	12.00	15.75	V
I_{ir}	Reflected Input Current	$V_i = 11.28$ to $15.75V$ $I_o = -250mA$ $V_o = -9V$			100	mApp
V_o	Output Voltage	$V_i = 11.28$ to $15.75V$ $I_o = -70$ to $-250mA$	- 8.55	- 9.00	- 9.45	V
V_{or}	Output Ripple Voltage	$V_i = 11.28$ to $15.75V$ $I_o = -250mA$			50	mVRMS
V_{on}	Output Noise Voltage	$V_i = 11.28$ to $15.75V$ $I_o = -250mA$			75	mVpp
δV_{OL}	Line Regulation	$V_i = 11.28$ to $15.75V$ $I_o = -250mA$			5	mV
δV_{OO}	Load Regulation	$V_i = 12V$ $I_o = -70$ to $-250mA$			5	mV
I_o	Output Current	$V_i = 11.28$ to $15.75V$ $V_o = -9V$	70		250	mA
V_{is}	Isolation Voltage	Input to Output	2500			V _{DC}
η	Efficiency	$V_i = 11.28$ to $15.75V$ $I_o = -250mA$	70	71		%
T_{op}	Operating Ambient Temperature Range		0		+70	$^{\circ}C$
T_{stg}	Storage Temperature Range		- 40		+85	$^{\circ}C$

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