

2 W LAN DC-DC CONVERTER

Type	V _{in}	V _{out}	I _{out}
GS2T5-9	5 V	9 V	250 mA

DESCRIPTION

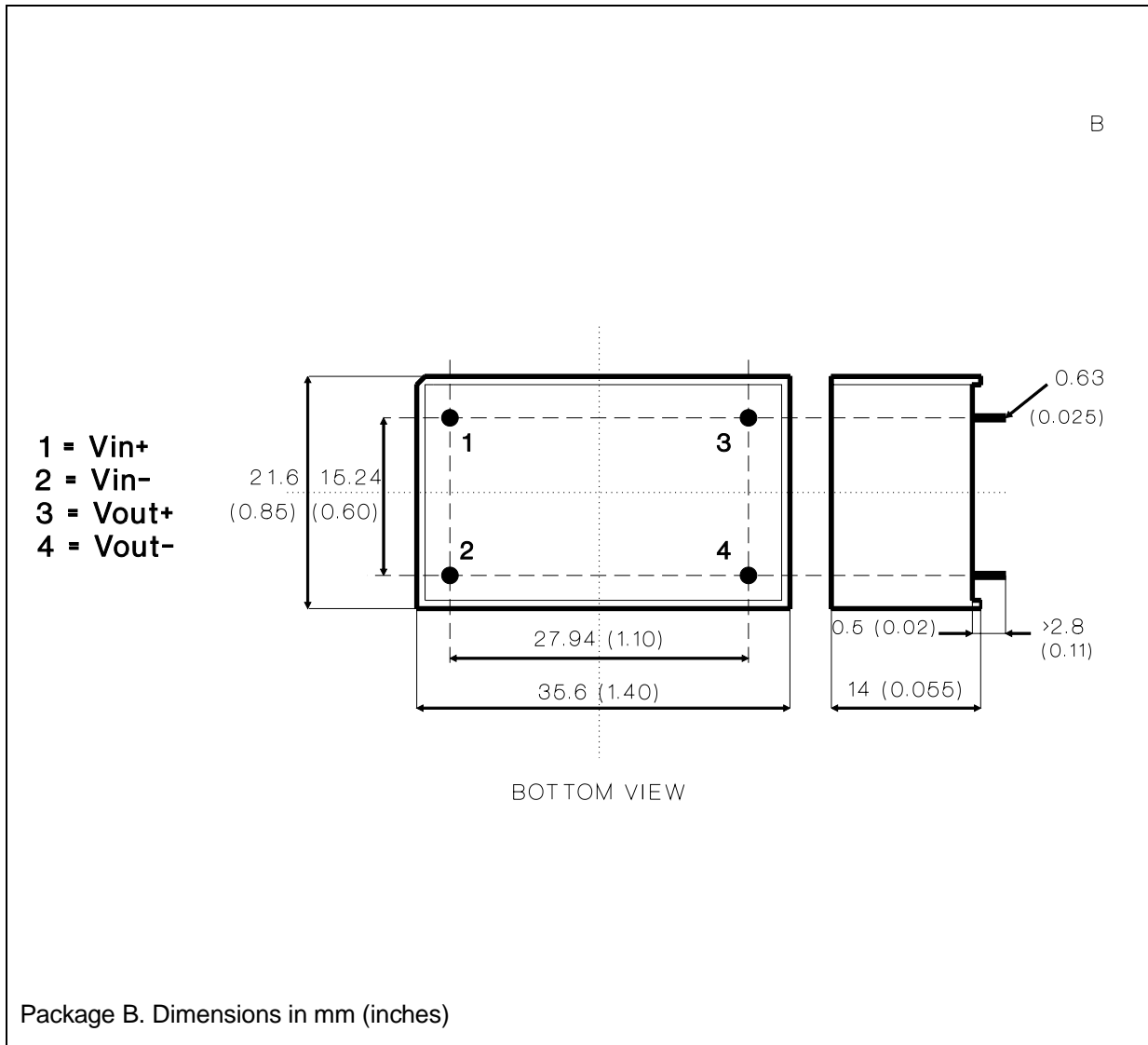
The GS2T5-9 is a 2.25W unregulated DC-DC converter designed to provide power, voltage regulation and isolation for Local Area Network (CHEAPERNET and ETHERNET) transceivers from a standard 5V input voltage, according to IEEE 802.3 Standard.


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

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _i	Input Voltage	V _o = -9V I _o = 0 to 250mA	4.5	5	5.5	V
I _{ir}	Input Reflected Current	V _i = 5V V _o = -9V I _o = 250mA		25	30	mApp
V _o	Output Voltage	V _i = 4.5 to 5.5V I _o = 0 to 250mA	-8.55	-9.00	-9.45	V
V _{or}	Output Ripple Voltage	V _i = 5V I _o = 250mA		7	10	mVrms
δV _o	Line Regulation	V _i = 4.5 to 5.5 I _o = 250mA			5	mV
δV _o	Load Regulation	V _i = 5V I _o = 20 to 250mA			5	mV
I _o	Output Current*	V _i = 4.5 to 5.5V V _o = -9V	0		250	mA
V _{is}	Isolation Voltage		2500			Vdc
η	Efficiency	V _i = 5V I _o = 250mA	70	73		%
T _{op}	Operating Temperature Range		0		+70	°C
T _{stg}	Storage Temperature Range		-40		+85	°C

* Note: when output current is less than 20mA, the 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 - France - Germany - Hong Kong - Italy - Japan - Korea - Malaysia - Malta - Morocco - The Netherlands -
 Singapore - Spain - Sweden - Switzerland - Taiwan - Thailand - United Kingdom - U.S.A.