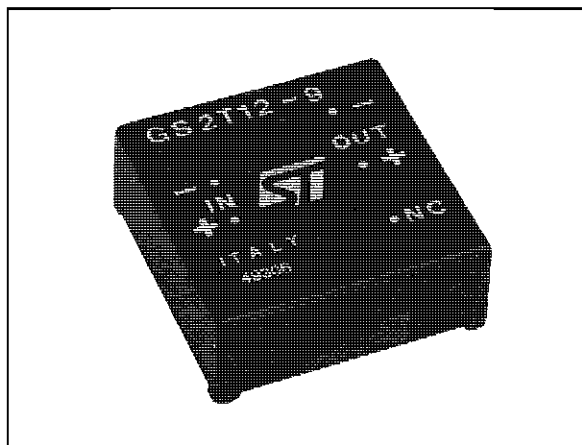


2W LAN DC-DC CONVERTER

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

DESCRIPTION

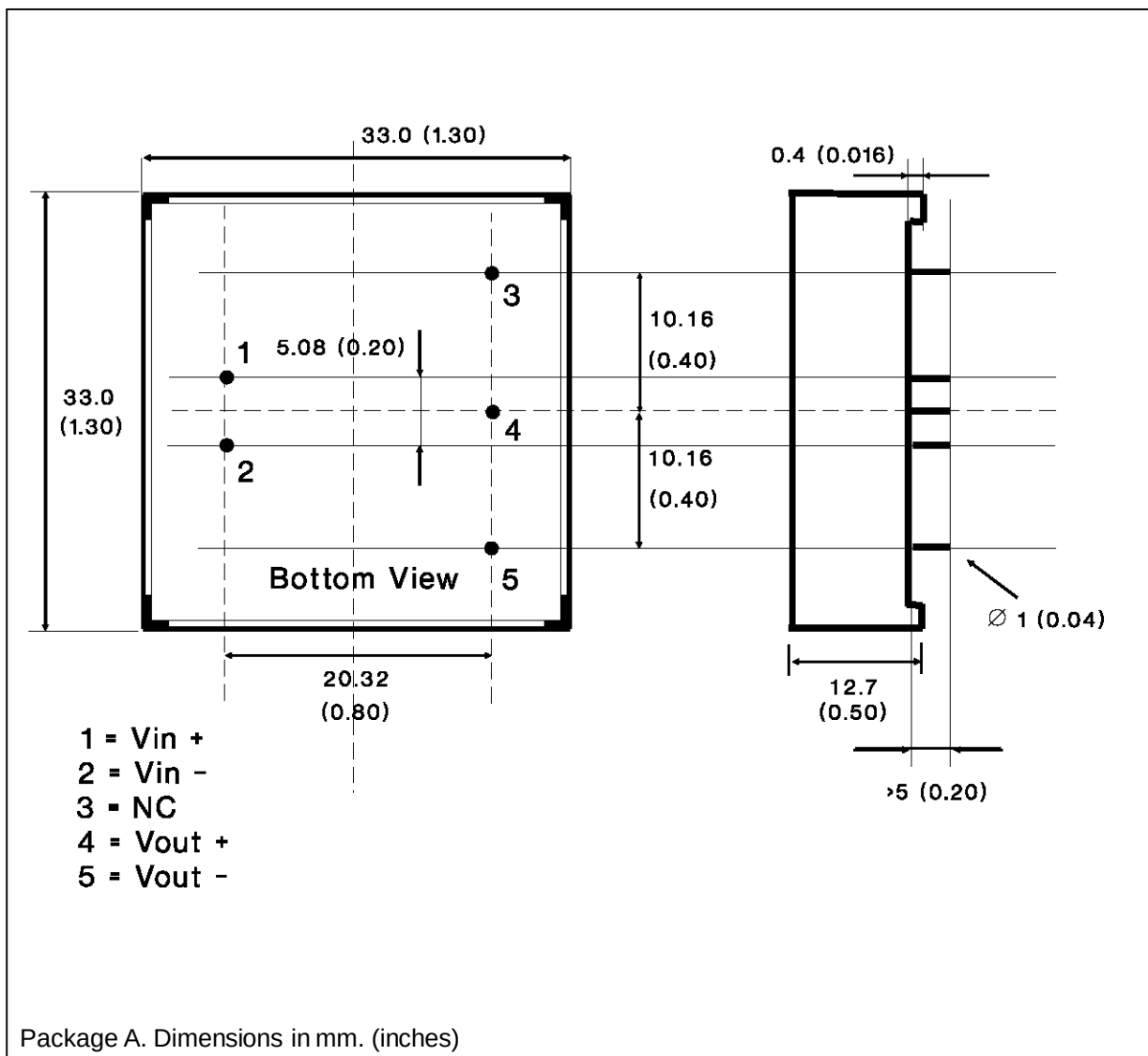
The GS2T12-9 is a 2.25W DC-DC converter designed to provide power, voltage regulation and isolation for Local Area Network (CHEAPERNET and ETHERNET) transceivers from a wide range of input voltage, according to IEEE 802.3 Standard.



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

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

CONNECTION DIAGRAM AND MECHANICAL DATA



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