

## 2W LAN DC-DC CONVERTER

Type	V <sub>i</sub>	V <sub>o</sub>	I <sub>o</sub>
GS2T12-9	12 V	-9 V	-250 mA

### DESCRIPTION

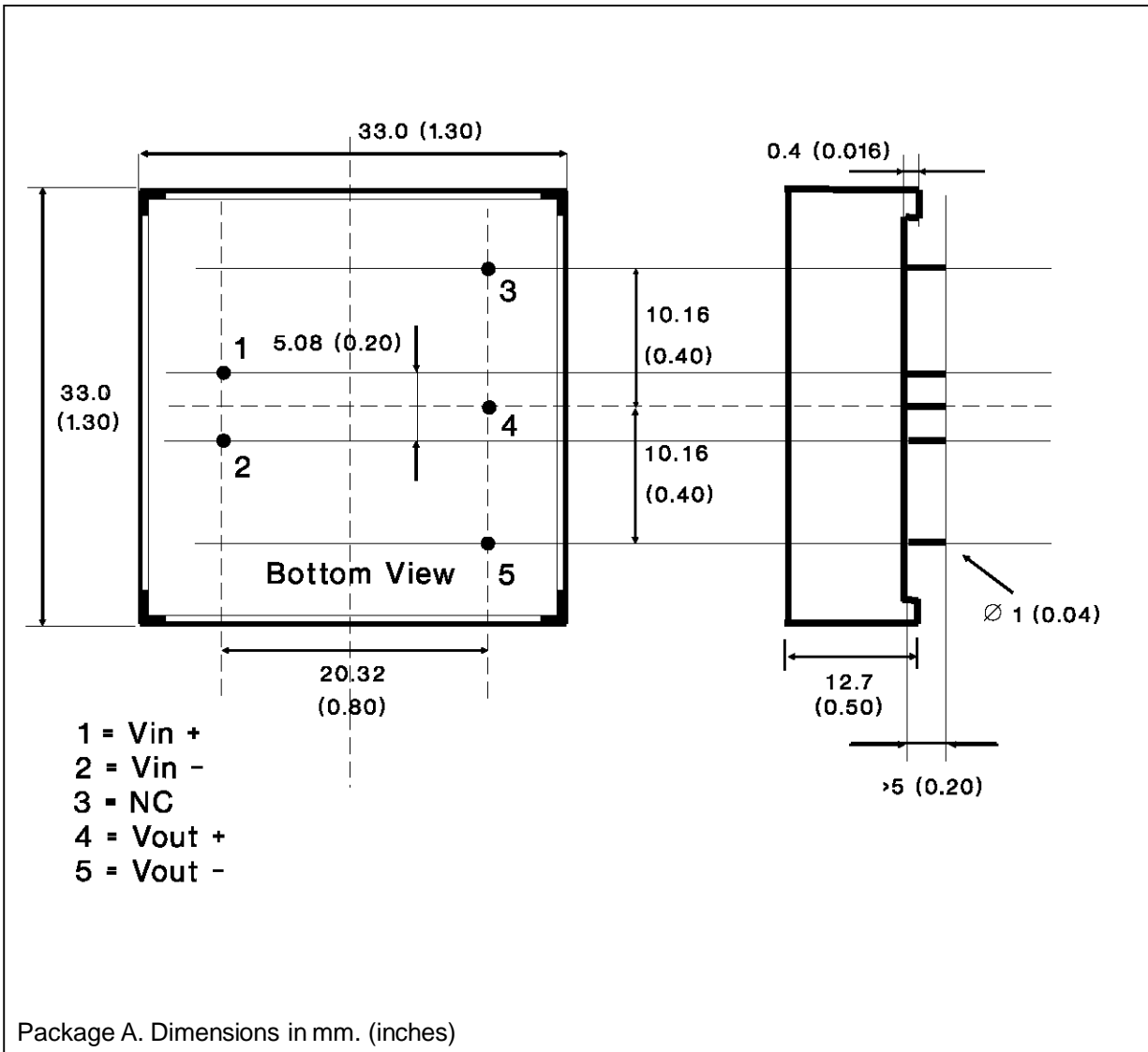
The GS2T12-9 is a 2.25W DC-DC converter designed to provide power, voltage regulation and isolation for Local Area Network (CHEAPERNET and ETHERNET) transceivers from a wide range of input voltage, according to IEEE 802.3 Standard.



### ELECTRICAL CHARACTERISTICS (T<sub>amb.</sub> = 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V <sub>i</sub>	Input Voltage	V <sub>o</sub> = -9V I <sub>o</sub> = -70 to -250mA	11.28	12.00	15.75	V
I <sub>ir</sub>	Reflected Input Current	V <sub>i</sub> = 11.28 to 15.75V I <sub>o</sub> = -250mA V <sub>o</sub> = -9V			100	mApp
V <sub>o</sub>	Output Voltage	V <sub>i</sub> = 11.28 to 15.75V I <sub>o</sub> = -70 to -250mA	-8.55	-9.00	-9.45	V
V <sub>or</sub>	Output Ripple Voltage	V <sub>i</sub> = 11.28 to 15.75V I <sub>o</sub> = -250mA			50	mVRMS
V <sub>on</sub>	Output Noise Voltage	V <sub>i</sub> = 11.28 to 15.75V I <sub>o</sub> = -250mA			75	mVpp
δVOL	Line Regulation	V <sub>i</sub> = 11.28 to 15.75V I <sub>o</sub> = -250mA			5	mV
δVOO	Load Regulation	V <sub>i</sub> = 12V I <sub>o</sub> = -70 to -250mA			5	mV
I <sub>o</sub>	Output Current	V <sub>i</sub> = 11.28 to 15.75V V <sub>o</sub> = -9V	70		250	mA
V <sub>is</sub>	Isolation Voltage	Input to Output	2500			V <sub>DC</sub>
η	Efficiency	V <sub>i</sub> = 11.28 to 15.75V I <sub>o</sub> = -250mA	70	71		%
T <sub>op</sub>	Operating Ambient Temperature Range		0		+70	°C
T <sub>stg</sub>	Storage Temperature Range		-40		+85	°C

CONNECTION DIAGRAM AND MECHANICAL DATA



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