

## 2W LAN DC-DC CONVERTER

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

### DESCRIPTION

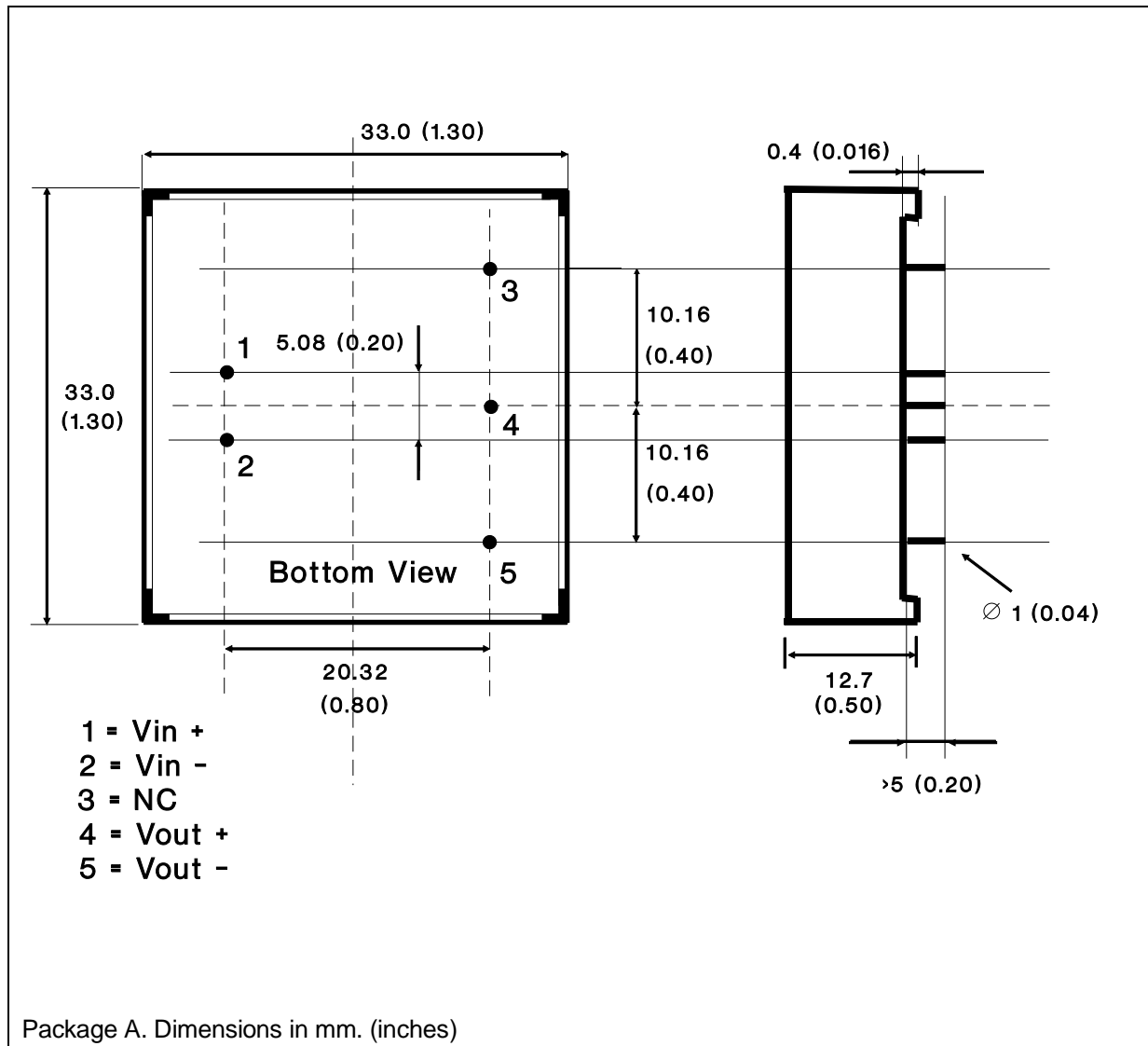
The GS2T12-9 is a 2.25W DC-DC converter designed to provide power, voltage regulation and isolation for Local Area Network (CHEAPERNET and ETHERNET) transceivers from a wide range of input voltage, according to IEEE 802.3 Standard.



### 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
$\delta V_{OL}$	Line Regulation	$V_i = 11.28$ to $15.75V$ $I_o = -250mA$			5	mV
$\delta V_{OO}$	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			$V_{DC}$
$\eta$	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



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