

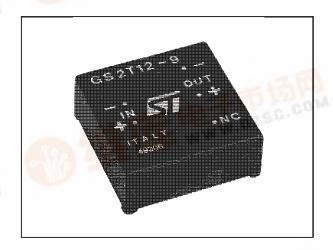
# GS2T12-9

## **2W LAN DC-DC CONVERTER**

Туре	Vi	V <sub>o</sub>	lo
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.



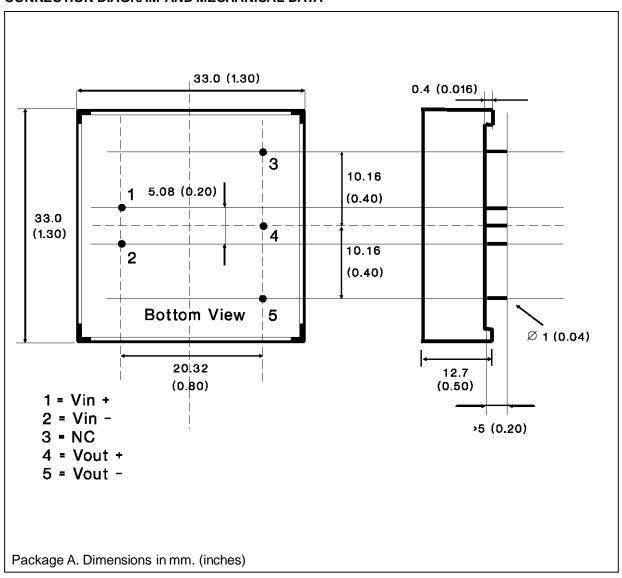
### **ELECTRICAL CHARACTERISTICS** (T<sub>amb.</sub>= 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions		Min	Тур	Max	Unit
Vi	Input Voltage	V <sub>O</sub> = -9V	$I_0 = -70 \text{ to } -250 \text{mA}$	11.28	12.00	15.75	V
lir	Reflected Input Current	$V_i = 11.28 \text{ to } 15.75 \text{V}$ $I_0 = -250 \text{mA}$	V <sub>0</sub> = -9V			100	mApp
Vo	Output Voltage	$V_i = 11.28 \text{ to } 15.75 \text{V}$ $I_0 = -70 \text{ to } -250 \text{mA}$		- 8.55	- 9.00	- 9.45	V
Vor	Output Ripple Voltage	V <sub>i</sub> = 11.28 to 15.75V	$I_0 = -250 \text{mA}$			50	mV <sub>RMS</sub>
Von	Output Noise Voltage	V <sub>i</sub> = 11.28 to 15.75V	$I_0 = -250 \text{mA}$			75	m∨pp
δVol	Line Regulation	Vi = 11.28 to 15.75V	$I_0 = -250 \text{mA}$			5	mV
δVoo	Load Regulation	V <sub>i</sub> = 12V	$I_0 = -70 \text{ to } -250\text{mA}$		and the	5	mV
lo	Output Current	Vi = 11.28 to 15.75V	$V_0 = -9V$	70	40	250	mA
Vis	Isolation Voltage	Input to Output		2500			VDC
η	Efficiency	V <sub>i</sub> = 11.28 to 15.75V	$I_0 = -250 \text{mA}$	70	71		%
Top	Operating Ambient Temperature Range	LOZSC.CO.		0		+70	°C
T <sub>stg</sub>	Storage Temperature Range			- 40		+85	°C



luno 1904

#### **CONNECTION DIAGRAM AND MECHANICAL DATA**



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