

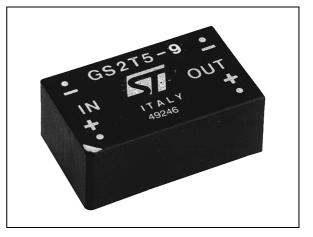
# GS2T5-9

## 2 W LAN DC-DC CONVERTER

Туре	V <sub>in</sub>	V <sub>out</sub>	l <sub>out</sub>	
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.

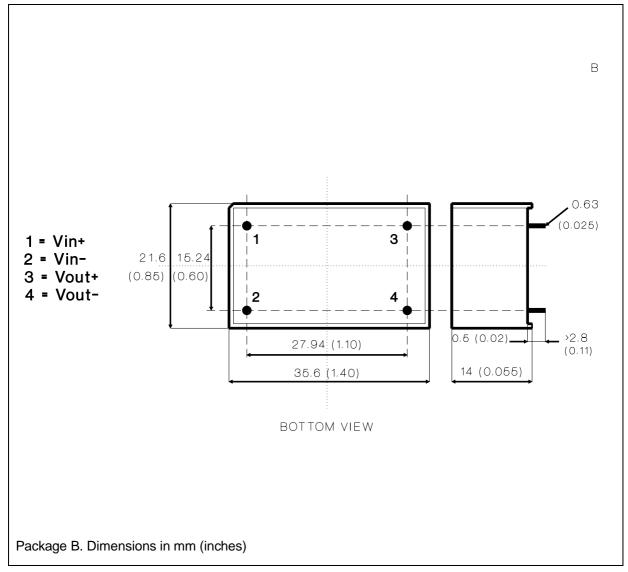


Symbol	Parameter	Test Conditions		Min	Тур	Max	Unit
Vi	Input Voltage	V <sub>0</sub> = -9V	I <sub>O</sub> = 0 to 250mA	4.5	5	5.5	V
lir	Input Reflected Current	Vi= 5V Vo = -9V	lo = 250mA		25	30	mApp
Vo	Output Voltage	Vi= 4.5 to 5.5V	I <sub>0</sub> = 0 to 250mA	-8.55	-9.00	-9.45	V
Vor	Output Ripple Voltage	Vi= 5V	l <sub>0</sub> = 250mA		7	10	mVrms
δVo	Line Regulation	Vi = 4.5 to 5.5	lo = 250mA			5	mV
δVo	Load Regulation	$V_i = 5V$	I <sub>0</sub> = 20 to 250mA			5	mV
lo	Output Current*	$V_i = 4.5 \text{ to } 5.5 \text{V}$	$V_0 = -9V$	0		250	mA
Vis	Isolation Voltage			2500			Vdc
η	Efficiency	Vi= 5V	I <sub>0</sub> = 250mA	70	73		%
Т <sub>ор</sub>	Operating Temperature Range			0		+70	°C
Tstg	Storage Temperature Range			-40		+85	°C

#### ELECTRICAL CHARACTERISTICS (Tamb. = 25° C unless otherwise specified)

\* Note: when output current is less than 20mA, the output ripple voltage increases due to discontinuous operation.

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



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