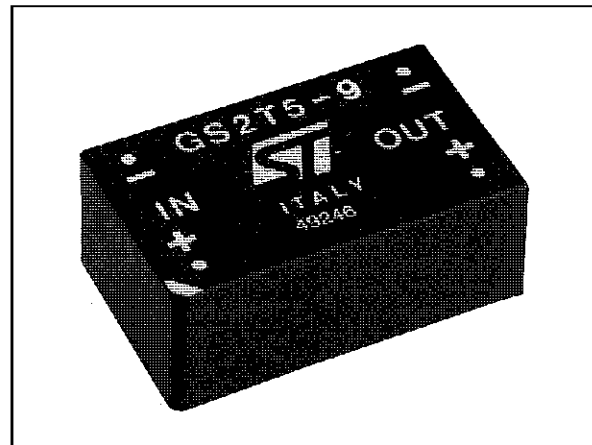


**2 W LAN DC-DC CONVERTER**

Type	V <sub>in</sub>	V <sub>out</sub>	I <sub>out</sub>
GS2T5-9	5 V	9 V	250 mA

**DESCRIPTION**

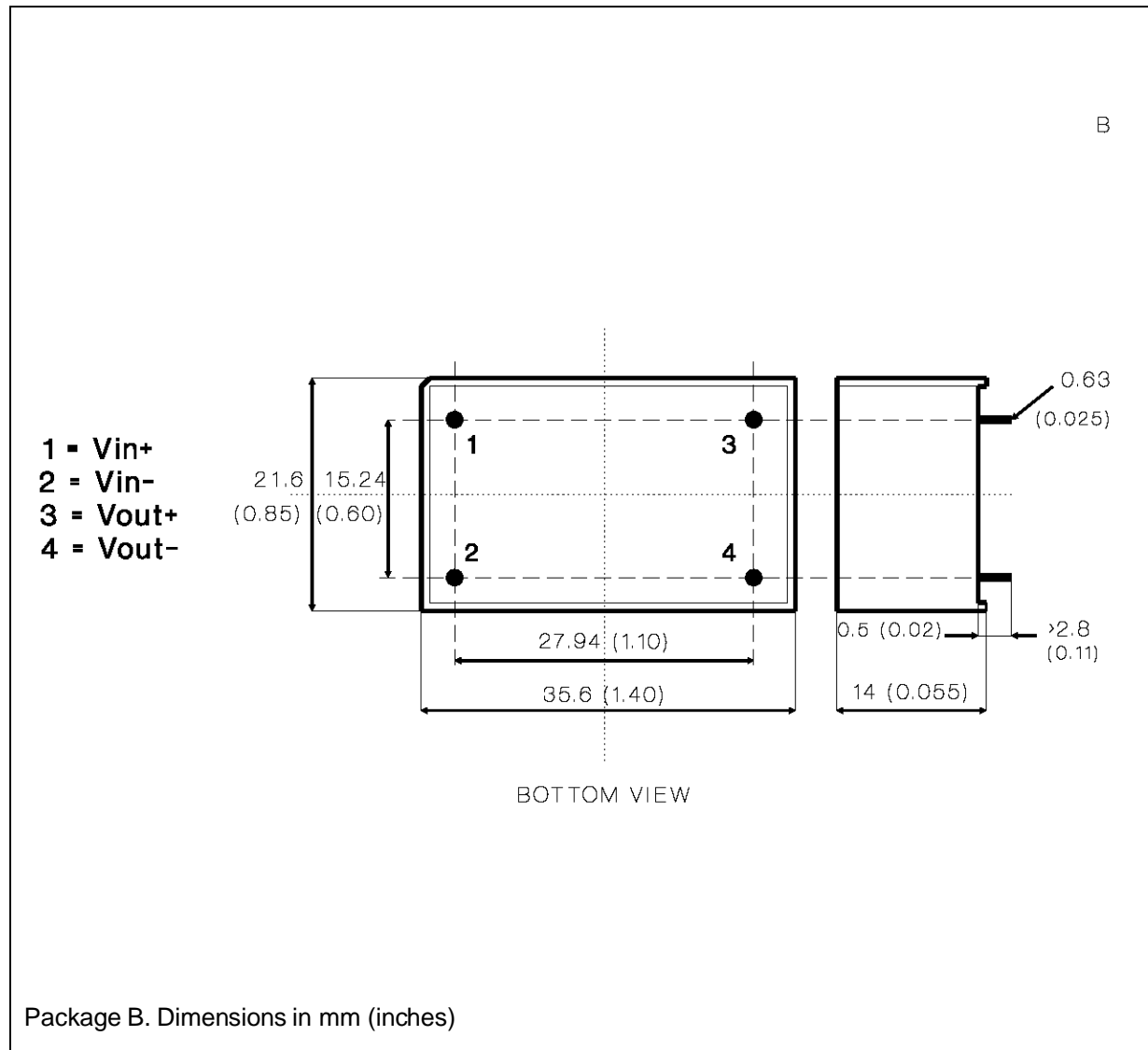
The GS2T5-9 is a 2.25W unregulated DC-DC converter designed to provide power, voltage regulation and isolation for Local Area Network (CHEAPERNET and ETHERNET) transceivers from a standard 5V input voltage, according to IEEE 802.3 Standard.


**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> = 0 to 250mA	4.5	5	5.5	V
I <sub>ir</sub>	Input Reflected Current	V <sub>i</sub> = 5V V <sub>O</sub> = -9V I <sub>O</sub> = 250mA		25	30	mApp
V <sub>O</sub>	Output Voltage	V <sub>i</sub> = 4.5 to 5.5V I <sub>O</sub> = 0 to 250mA	-8.55	-9.00	-9.45	V
V <sub>or</sub>	Output Ripple Voltage	V <sub>i</sub> = 5V I <sub>O</sub> = 250mA		7	10	mVrms
δV <sub>O</sub>	Line Regulation	V <sub>i</sub> = 4.5 to 5.5 I <sub>O</sub> = 250mA			5	mV
δV <sub>O</sub>	Load Regulation	V <sub>i</sub> = 5V I <sub>O</sub> = 20 to 250mA			5	mV
I <sub>O</sub>	Output Current*	V <sub>i</sub> = 4.5 to 5.5V V <sub>O</sub> = -9V	0		250	mA
V <sub>is</sub>	Isolation Voltage		2500			Vdc
η	Efficiency	V <sub>i</sub> = 5V I <sub>O</sub> = 250mA	70	73		%
T <sub>op</sub>	Operating Temperature Range		0		+70	°C
T <sub>stg</sub>	Storage Temperature Range		-40		+85	°C

\* 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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