

## 2 W LAN DC-DC CONVERTER

Type	V <sub>in</sub>	V <sub>out</sub>	I <sub>out</sub>
GS2TX-9	4,5 to 15,75 V	9 V	250 mA

### DESCRIPTION

The GS2TX-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 wide range of input voltage, according to IEEE 802.3 Standard.

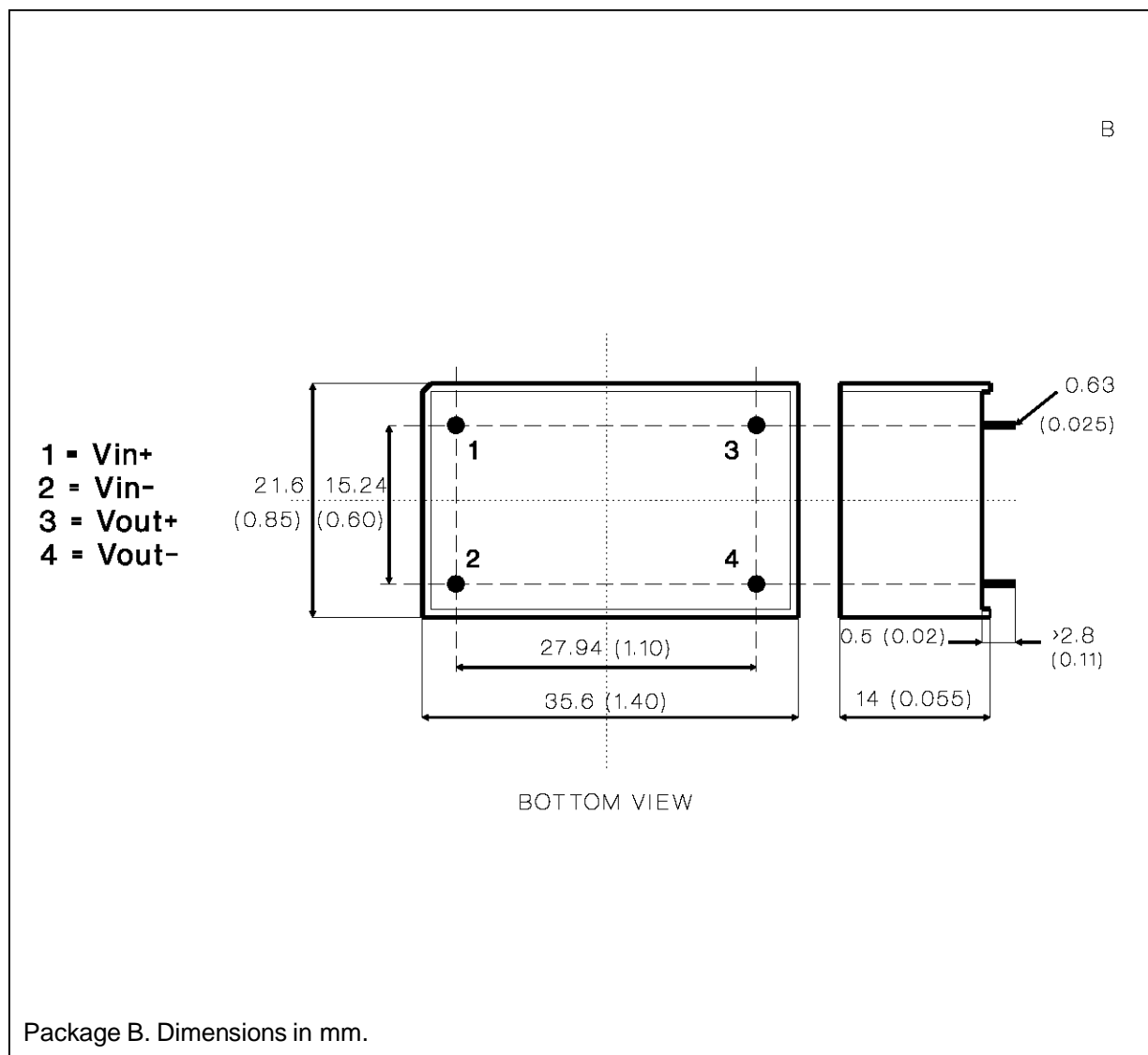


### ELECTRICAL CHARACTERISTICS (T<sub>amb.</sub> = 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V <sub>i</sub>	Input Voltage	V <sub>O</sub> = 9V I <sub>O</sub> = 0 to 250mA	4.5		15.75	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
I <sub>ir</sub>	Input Reflected Current	V <sub>i</sub> = 12V V <sub>O</sub> = -9V I <sub>O</sub> = 250mA		2	5	mApp
V <sub>O</sub>	Output Voltage	V <sub>i</sub> = 4.5 to 15.75V 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
V <sub>or</sub>	Output Ripple Voltage	V <sub>i</sub> = 12V I <sub>O</sub> = 250mA		2	5	mVrms
δV <sub>O</sub>	Line Regulation	V <sub>i</sub> = 4.75 to 5.5V I <sub>O</sub> = 250mA			5	mV
δV <sub>O</sub>	Load Regulation	V <sub>i</sub> = 4.5 to 15.75V I <sub>O</sub> = 20 to 250mA			5	mV
I <sub>O</sub>	Output Current*	V <sub>i</sub> = 4.5 to 15.75V 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		%
η	Efficiency	V <sub>i</sub> = 12V I <sub>O</sub> = 250mA	75	80		%
T <sub>op</sub>	Operating Ambient Temperature Range		0		+70	°C
T <sub>stg</sub>	Storage Temperature Range		-40		+85	°C

\* When the input voltage is <5V and the output current is less than 20mA, the output ripple voltage increases due to discontinuous operation.

## CONNECTION DIAGRAM AND MECHANICAL DATA



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