

2 W LAN DC-DC CONVERTER

Type	V _{in}	V _{out}	I _{out}
GS2TX-9	4,5 to 15,75 V	9 V	250 mA

DESCRIPTION

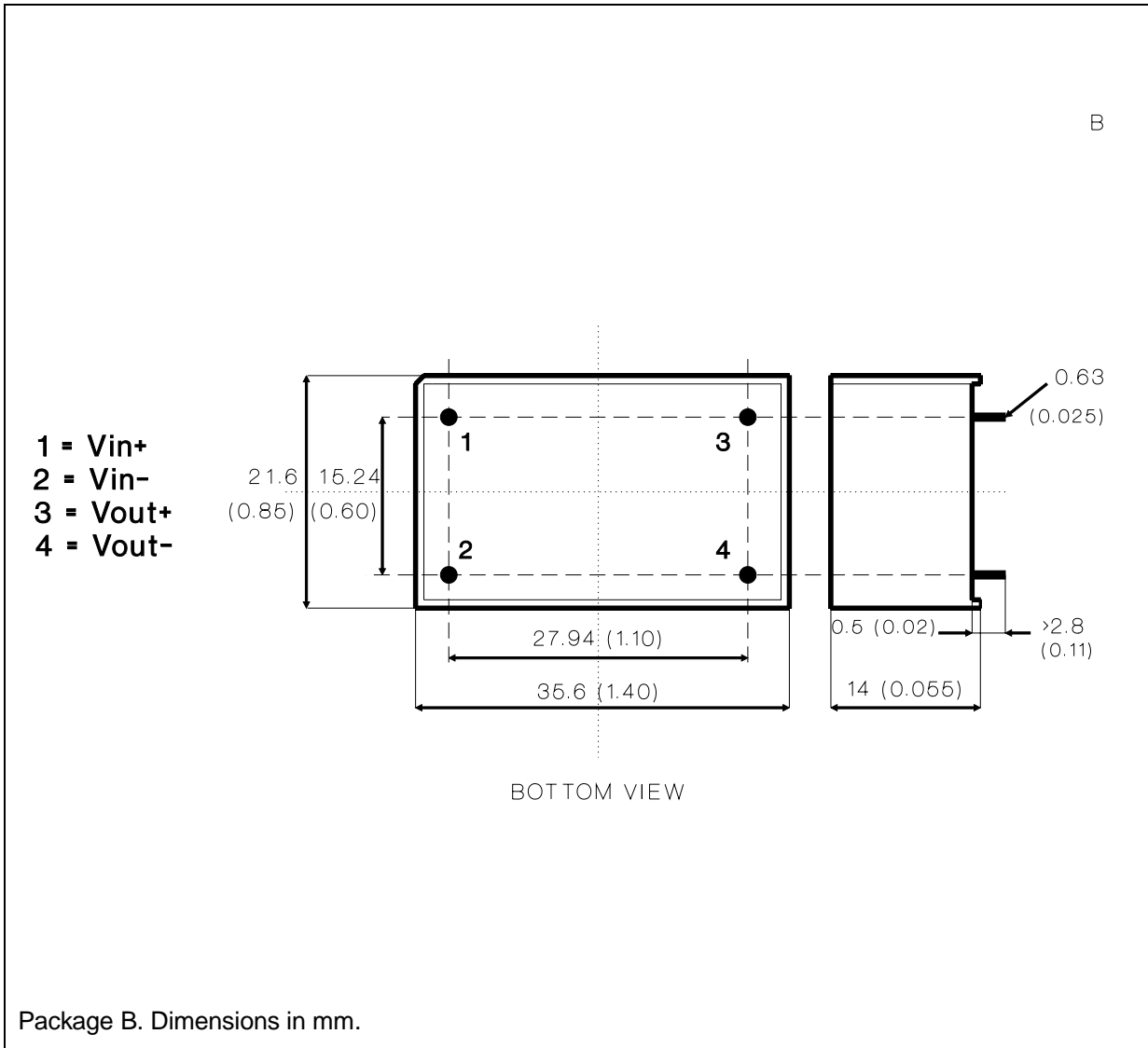
The GS2TX-9 is a 2.25W unregulated DC-DC converter designed to provide power, voltage regulation and isolation for Local Area Network (CHEAPERNET and ETHERNET) transceivers from a wide range of input voltage, according to IEEE 802.3 Standard.


ELECTRICAL CHARACTERISTICS (T_{amb.} = 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _i	Input Voltage	V _O = 9V I _O = 0 to 250mA	4.5		15.75	V
I _{ir}	Input Reflected Current	V _i = 5V V _O = -9V I _O = 250mA		25	30	mApp
I _{ir}	Input Reflected Current	V _i = 12V V _O = -9V I _O = 250mA		2	5	mApp
V _O	Output Voltage	V _i = 4.5 to 15.75V I _O = 0 to 250mA	-8.55	-9.00	-9.45	V
V _{or}	Output Ripple Voltage	V _i = 5V I _O = 250mA		7	10	mVrms
V _{or}	Output Ripple Voltage	V _i = 12V I _O = 250mA		2	5	mVrms
δV _O	Line Regulation	V _i = 4.75 to 5.5V I _O = 250mA			5	mV
δV _O	Load Regulation	V _i = 4.5 to 15.75V I _O = 20 to 250mA			5	mV
I _O	Output Current*	V _i = 4.5 to 15.75V V _O = -9V	0		250	mA
V _{is}	Isolation Voltage		2500			Vdc
η	Efficiency	V _i = 5V I _O = 250mA	70	73		%
η	Efficiency	V _i = 12V I _O = 250mA	75	80		%
T _{op}	Operating Ambient Temperature Range		0		+70	°C
T _{stg}	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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