

2 W LAN DC-DC CONVERTER

Type	V _i	V _o	I _o
GS2TX-9A	4,5 to 15,75 V	- 9 V	- 250 mA

DESCRIPTION

The GS2TX-9A 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.

An internal network is added to guarantee soft start at switch-on.

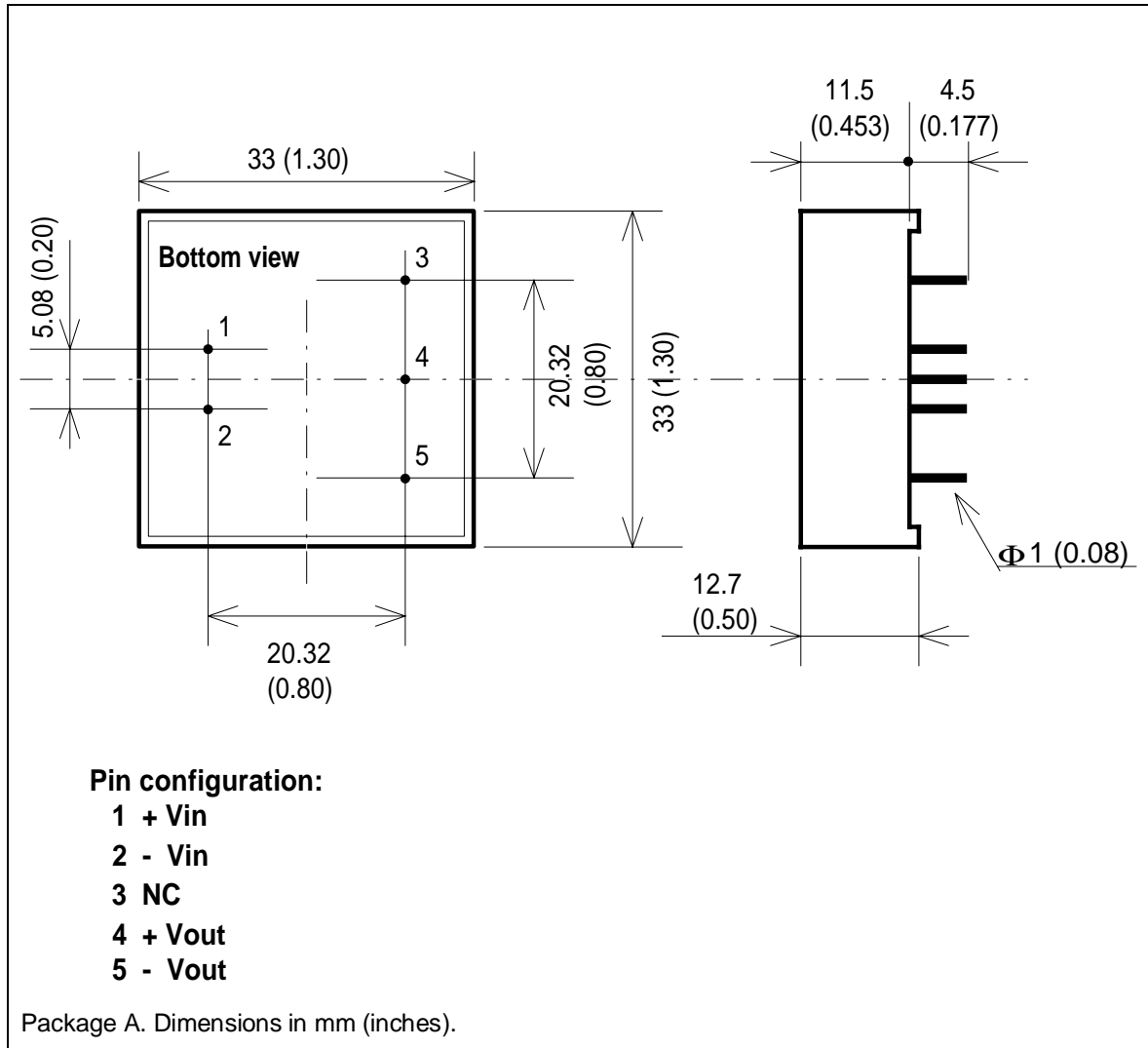


ELECTRICAL CHARACTERISTICS (T_{amb.} = 25° C unless otherwise specified)

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 _{OL}	Line Regulation	V _i = 4.5 to 5.5V I _o = - 250mA			5	mV
δV _{OO}	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			V _{DC}
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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