

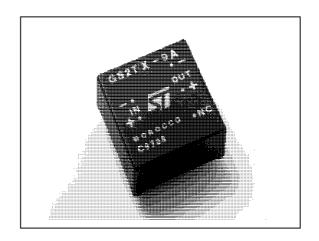
2 W LAN DC-DC CONVERTER

Туре	V _i	۷o	lo
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.



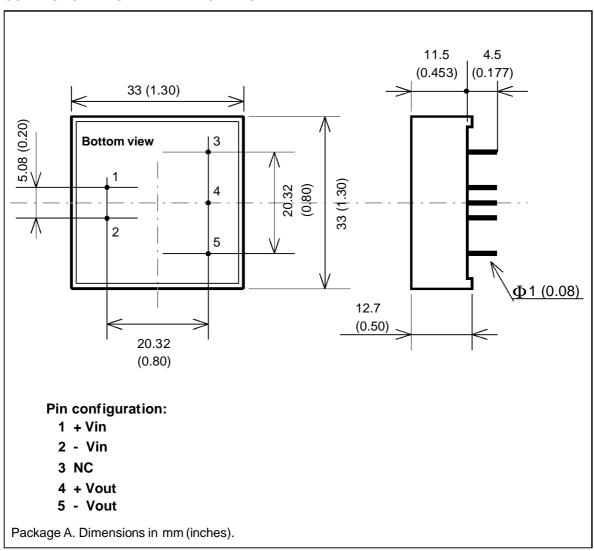
ELECTRICAL CHARACTERISTICS (Tamb.= 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
Vi	Input Voltage	$V_0 = 9V$ $I_0 = 0 \text{ to} - 250\text{mA}$	4.5		15.75	V
lir	Input Reflected Current	$V_i = 5V$ $V_0 = -9V$ $I_0 = -250mA$		25	30	mApp
lir	Input Reflected Current	$V_i = 12V$ $V_0 = -9V$ $I_0 = -250mA$		2	5	mApp
Vo	Output Voltage	V _i = 4.5 to 15.75V I ₀ = 0 to - 250mA	- 8.55	- 9.00	- 9.45	V
Vor	Output Ripple Voltage	$V_i = 5V$ $I_0 = -250 \text{mA}$		7	10	mV _{RMS}
Vor	Output Ripple Voltage	$V_i = 12V$ $I_0 = -250 \text{mA}$		2	5	mV _{RMS}
δVol	Line Regulation	$V_i = 4.5 \text{ to } 5.5 \text{V}$ $I_0 = -250 \text{mA}$			5	mV
δVοο	Load Regulation	$V_i = 4.5 \text{ to } 15.75 \text{V}$ $I_0 = -20 \text{ to } -250 \text{mA}$			5	mV
lo	Output Current*	$V_i = 4.5 \text{ to } 15.75 \text{V}$ $V_0 = -9 \text{V}$	0		- 250	mA
Vis	Isolation Voltage		2500			VDC
η	Efficiency	$V_i = 5V$ $I_0 = -250 \text{mA}$	70	73		%
η	Efficiency	Vi = 12V I _O = -250mA	75	80		%
Тор	Operating Ambient Temperature Range		0		+70	°C
Tstg	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.

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CONNECTION DIAGRAM AND MECHANICAL DATA



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