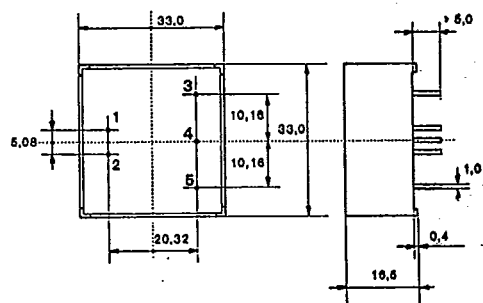


DESCRIPTION

The GS-315-3.3 is a 2.5W DC-DC converter used to generate a 3.3V isolated output from a 5.0V input.

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V_i	Input Voltage	$V_o = 3.3\text{V}$ $I_o = 0$ to 0.75A	4.75	5.0	5.25	V
V_o	Output Voltage	$V_i = 4.75$ to 5.25V $I_o = 0$ to 0.75A	3.20	3.30	3.40	V
I_o	Output Current	$V_i = 4.75$ to 5.25V	0		0.75	A
δV_o	Line Regulation	$\delta V_i = 500\text{mV}$ $I_o = 0.75\text{A}$		2	10	mV
δV_o	Load Regulation	$V_i = 5.00\text{V}$ $\delta I_o = 0.7\text{A}$		20	50	mV
η	Efficiency	$V_i = 5.0\text{V}$ $I_o = 0.75\text{A}$	70	75		%
V_{or}	Output Ripple Voltage	$V_i = 5.0\text{V}$ $I_o = 0.75\text{A}$		7	15	mVrms
I_{os}	Output Short Circuit Current	$V_i = 5.0\text{V}$		1.2	1.5	A
I_{ir}	Input Reflected Current	$V_i = 5.0\text{V}$ $I_o = 0.75\text{A}$		25	50	mApp
I_{iq}	Input Quiescent Current	$V_i = 5.0\text{V}$ $I_o = 0$		25	50	mA
V_{is}	Isolation Voltage		750			Vdc
f_{op}	Operating Frequency	$V_i = 5.0\text{V}$ $I_o = 0.75\text{A}$		70		kHz
T_{stg}	Storage Temperature		-40		+105	$^\circ\text{C}$
T_{op}	Operating Temperature		0		+70	$^\circ\text{C}$

CONNECTION DIAGRAM AND MECHANICAL DATA

Dimensions in mm

bottom view

1 = $V_{in} +$
 2 = $V_{in} -$
 3 = NC
 4 = $V_{out} +$
 5 = $V_{out} -$