

DC-DC CONVERTER FOR ECL APPLICATIONS

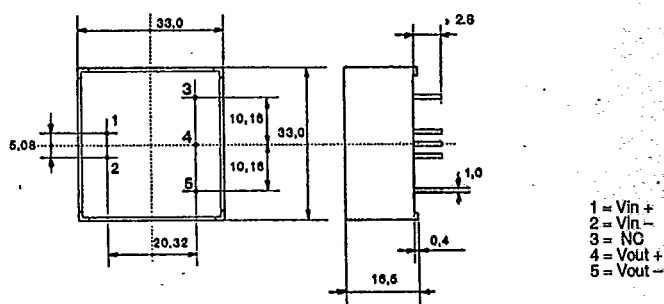
DESCRIPTION

The GS-315-5.2 is a 3.0W DC-DC converter used to generate a 5.2V 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	$V_O = 5.2\text{V}$ $I_O = 0$ to 0.6A	4.75	5.00	5.25	V
V_O	Output Voltage	$V_I = 4.75$ to 5.25V $I_O = 0$ to 0.6A	-5.04	-5.20	-5.36	V
I_O	Output Current	$V_I = 4.75$ to 5.25V	0		0.6	A
δV_O	Line Regulation	$\delta V_I = 500\text{mV}$ $I_O = 0.6\text{A}$		2	10	mV
δV_O	Load Regulation	$V_I = 5.0\text{V}$ $\delta I_O = 0.55\text{A}$		10	15	mV
η	Efficiency	$V_I = 5.0\text{V}$ $I_O = 0.6\text{A}$	70	75		%
V_{or}	Output Ripple Voltage	$V_I = 5.0\text{V}$ $I_O = 0.6\text{A}$		5	15	mVrms
I_{os}	Output Short Circuit Current	$V_I = 5.0\text{V}$		0.9	1.5	A
I_{ir}	Input Reflected Current	$V_I = 5.0\text{V}$ $I_O = 0.6\text{A}$		25	50	mApp
I_{iq}	Input Quiescent Current	$V_I = 5.0\text{V}$ $I_O = 0$		18	30	mA
V_{is}	Isolation Voltage		750			Vdc
f_{op}	Operating Frequency	$V_I = 5.0\text{V}$ $I_O = 0.6\text{A}$		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