

TRIPLE OUTPUT DC-DC CONVERTER

DESCRIPTION

The GS-115-5D15 is a 0.6W DC-DC converter designed to provide an isolated 5V/20mA, +15V/15mA and -15V/15mA power source.

The module operates from a 5V input source and it offers 2500 VDC isolation.

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

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V_i	Input Voltage	$I_{O1} = 3$ to 20mA $I_{O2} = I_{O3} = 5$ to 15mA	4.70	5.00	5.30	V
I_i	Input Current	$V_i = 4.7$ to 5.3V $I_O = \text{Full Load}$			200	mA
I_i	Input Current	$V_i = 4.7$ to 5.3V $I_O = \text{No Load}$			40	mA
V_{O1}	Output Voltage 1	$V_i = 4.7$ to 5.3V $I_{O1} = 3$ to 20mA	4.75		5.25	V
V_{O2}	Output Voltage 2	$V_i = 4.7$ to 5.3V $I_{O2} = 5$ to 15mA	14.25		15.75	V
V_{O3}	Output Voltage 3	$V_i = 4.7$ to 5.3V $I_{O3} = 5$ to 15mA	-14.25		-15.75	V
η	Efficiency	$V_i = 5.0$ V $I_O = \text{Full Load}$	68	73		%
V_{or}	Output Ripple Voltage	$V_i = 4.7$ to 5.3V $I_O = \text{Full Load}$			30	mVpp
I_{ir}	Input Reflected Current	$V_i = 4.7$ to 5.3 $I_O = \text{Full Load}$			10	mApp
f_{op}	Operating Frequency	$V_i = 5.0$ V $I_O = \text{Full Load}$		150		kHz
T_{stg}	Storage Temperature		-20		+85	$^\circ\text{C}$
T_{op}	Operating Temperature		0		+70	$^\circ\text{C}$

CONNECTION DIAGRAM AND MECHANICAL DATA

