

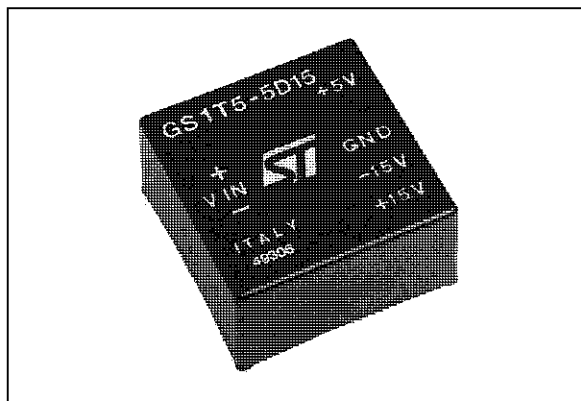
1 W TRIPLE OUTPUT DC-DC CONVERTER

Type	V _i	V _o	I _o
GS1T5-5D15	5 V	+ 5 V	+ 20 mA
		+ 15 V	+ 15 mA
		- 15 V	- 15 mA

DESCRIPTION

The GS1T5-5D15 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 offers 2500V_{DC} isolation.



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

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _i	Input Voltage	V _{o1} = +5V V _{o2} = +15V V _{o3} = -15V I _{o1} = 3 to 20mA I _{o2} = 5 to 15mA I _{o3} = -5 to -15mA	4.7	5.0	5.3	V
I _{ir}	Input Reflected Current	V _i = 4.7 to 5.3V Full Load			10	mApp
V _{o1}	Output Voltage 1	V _i = 4.7 to 5.3V I _{o1} = 3 to 20mA	4.75	5.00	5.25	V
V _{o2}	Output Voltage 2	V _i = 4.7 to 5.3V I _{o2} = 5 to 15mA	14.25	15.00	15.75	V
V _{o3}	Output Voltage 3	V _i = 4.7 to 5.3V I _{o3} = -5 to -15mA	-14.25	-15.00	-15.75	V
I _{o1}	Output Current 1	V _i = 4.7 to 5.3V V _{o1} = 5V	3		20	mA
I _{o2}	Output Current 2	V _i = 4.7 to 5.3V V _{o2} = +15V	5		15	mA
I _{o3}	Output Current 3	V _i = 4.7 to 5.3V V _{o3} = -15V	-5		-15	mA
V _{or1}	Output Ripple Voltage 1	V _i = 4.7 to 5.3V I _{o1} = 20mA			30	mVpp
V _{or2}	Output Ripple Voltage 2	V _i = 4.7 to 5.3V I _{o2} = 15mA			70	mVpp
V _{or3}	Output Ripple Voltage 3	V _i = 4.7 to 5.3V I _{o3} = -15mA			70	mVpp
V _{is}	Isolation voltage		2500			Vdc
η	Efficiency	V _i = 5V Full Load	68	73		%
f _s	Switching Frequency	V _i = 5V Full Load		150		kHz
T _{op}	Operating Ambient Temperature Range		0		+80	°C
T _{stg}	Storage Temperature Range		-40		+85	°C

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