

GS5T24-5D15

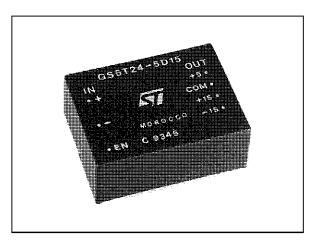
5W TRIPLE OUTPUT DC-DC CONVERTER

Туре	Vi	V _o	lo	
GS5T24-5D15		+ 5 V	200 mA	
	17,5 to 30	+ 15 V	125 mA	
		- 15 V	– 125 mA	

DESCRIPTION

The GS5T24-5D15 is a 5W DC-DC converter designed to provide three isolated outputs: 5V/200mA and a dual $\pm 15V/\pm 125mA$.

The module operates from a 24V input source and offers 2500V_{DC} isolation voltage. A high level TTL/CMOS compatible input will enable the unit; a low input will inhibit it.

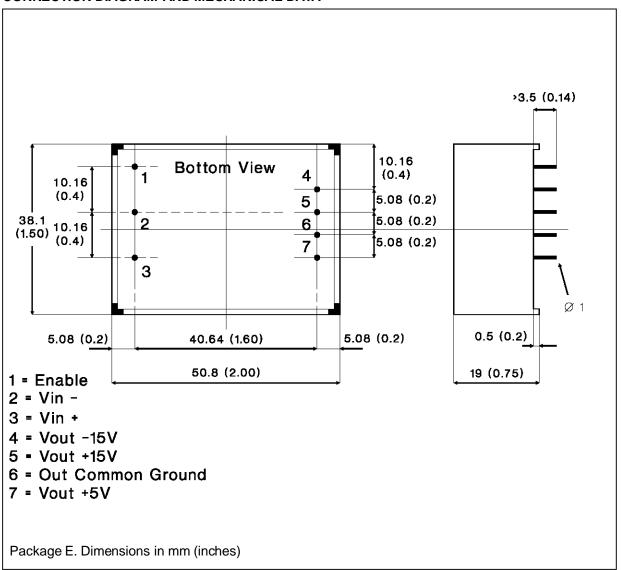


ELECTRICAL CHARACTERISTICS (T_{amb.}= 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions		Min	Тур	Max	Unit
Vi	Input Voltage	V ₀₁ = 5V V ₀₂ = 15V V ₀₃ = -15V	lo1 = 0 to 200mA lo2 = 0 to 125mA lo3 = 0 to -125mA	17.5	24.0	30.0	V
lir	Input Reflected Current	Vi = 17.5 to 30V	Full Load on All Outputs			75	mApp
Vo1	Output Voltage 1	V _i = 17.5 to 30V	$I_{01} = 0$ to 200mA	4.75	5.00	5.25	V
Vo2	Output Voltage 2	Vi = 17.5 to 30V	$l_{02} = 0$ to 125mA	14.25	15.00	15.75	V
Vo3	Output Voltage 3	Vi = 17.5 to 30V	$l_{03} = 0 \text{ to } - 125\text{mA}$	- 14.25	- 15.00	- 15.75	V
Vor1	Output Ripple Voltage 1	Vi = 24V	Full Load on All Outputs			30	mVpp
Vor2	Output Ripple Voltage 2	Vi = 24V	Full Load on All Outputs			90	mVpp
Vor3	Output Ripple Voltage 3	Vi = 24V	Full Load on All Outputs			90	mVpp
lo1	Output Current 1	Vi = 17.5 to 30V Vo1 = 5V		0		200	mA
lo2	Output Current 2	Vi = 17.5 to 30V Vo2 = 15V	lo3 = 0 to 125mA	0		125	mA
lo3	Output Current 3	Vi = 17.5 to 30V V ₀ 3 = -15V	$l_{02} = 0 \text{ to } - 125\text{mA}$	0		125	mA
Vis	Isolation Voltage			2500			VDC
f _S	Switching Frequency				120		kHz
η	Efficiency	Vi = 24V	Full Load on All Outputs	65	70		%
Тор	Operating Ambient Temperature Range	Still air		0		+40	°C
Тор	Operating Ambient Temperature Range	Forced ventilation	n, air speed = 100 LFM	0		+60	°C
T _{stg}	Storage Temperature Range			- 20		+85	°C

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CONNECTION DIAGRAM AND MECHANICAL DATA



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