

5W TRIPLE OUTPUT DC-DC CONVERTER

Type	V _i	V _o	I _o
GS5T24-5D15	17,5 to 30	+ 5 V	200 mA
		+ 15 V	125 mA
		- 15 V	- 125 mA

DESCRIPTION

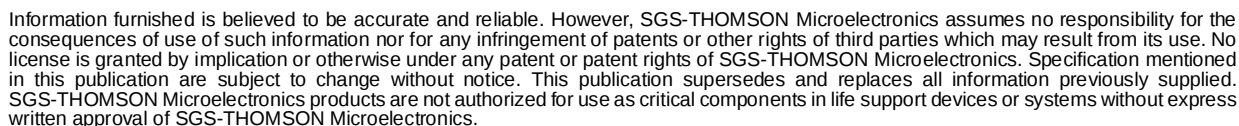
The GS5T24-5D15 is a 5W DC-DC converter designed to provide three isolated outputs: 5V/200mA and a dual $\pm 15V/\pm 125mA$.

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	Typ	Max	Unit
V _i	Input Voltage	V _{o1} = 5V I _{o1} = 0 to 200mA V _{o2} = 15V I _{o2} = 0 to 125mA V _{o3} = -15V I _{o3} = 0 to -125mA	17.5	24.0	30.0	V
I _{ir}	Input Reflected Current	V _i = 17.5 to 30V Full Load on All Outputs			75	mApp
V _{o1}	Output Voltage 1	V _i = 17.5 to 30V I _{o1} = 0 to 200mA	4.75	5.00	5.25	V
V _{o2}	Output Voltage 2	V _i = 17.5 to 30V I _{o2} = 0 to 125mA	14.25	15.00	15.75	V
V _{o3}	Output Voltage 3	V _i = 17.5 to 30V I _{o3} = 0 to -125mA	-14.25	-15.00	-15.75	V
V _{or1}	Output Ripple Voltage 1	V _i = 24V Full Load on All Outputs			30	mVpp
V _{or2}	Output Ripple Voltage 2	V _i = 24V Full Load on All Outputs			90	mVpp
V _{or3}	Output Ripple Voltage 3	V _i = 24V Full Load on All Outputs			90	mVpp
I _{o1}	Output Current 1	V _i = 17.5 to 30V V _{o1} = 5V	0		200	mA
I _{o2}	Output Current 2	V _i = 17.5 to 30V I _{o3} = 0 to 125mA V _{o2} = 15V	0		125	mA
I _{o3}	Output Current 3	V _i = 17.5 to 30V I _{o2} = 0 to -125mA V _{o3} = -15V	0		125	mA
V _{is}	Isolation Voltage		2500			V _{DC}
f _s	Switching Frequency			120		kHz
η	Efficiency	V _i = 24V Full Load on All Outputs	65	70		%
Top	Operating Ambient Temperature Range	Still air	0		+40	°C
Top	Operating Ambient Temperature Range	Forced ventilation, air speed = 100 LFM	0		+60	°C
T _{stg}	Storage Temperature Range		-20		+85	°C



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