

## 2 W TRIPLE OUTPUT DC-DC CONVERTER

Type	V <sub>in</sub>	V <sub>out</sub>	I <sub>out</sub>
GS2T5-5D15	5 V	+ 5 V	+ 50 mA
		+ 15 V	+ 70 mA
		- 15 V	- 70 mA

### DESCRIPTION

The GS2T5-5D15 is a 2.3W DC-DC converter designed to provide an isolated 5V/50mA, +15V/70mA and -15V/70mA power source.

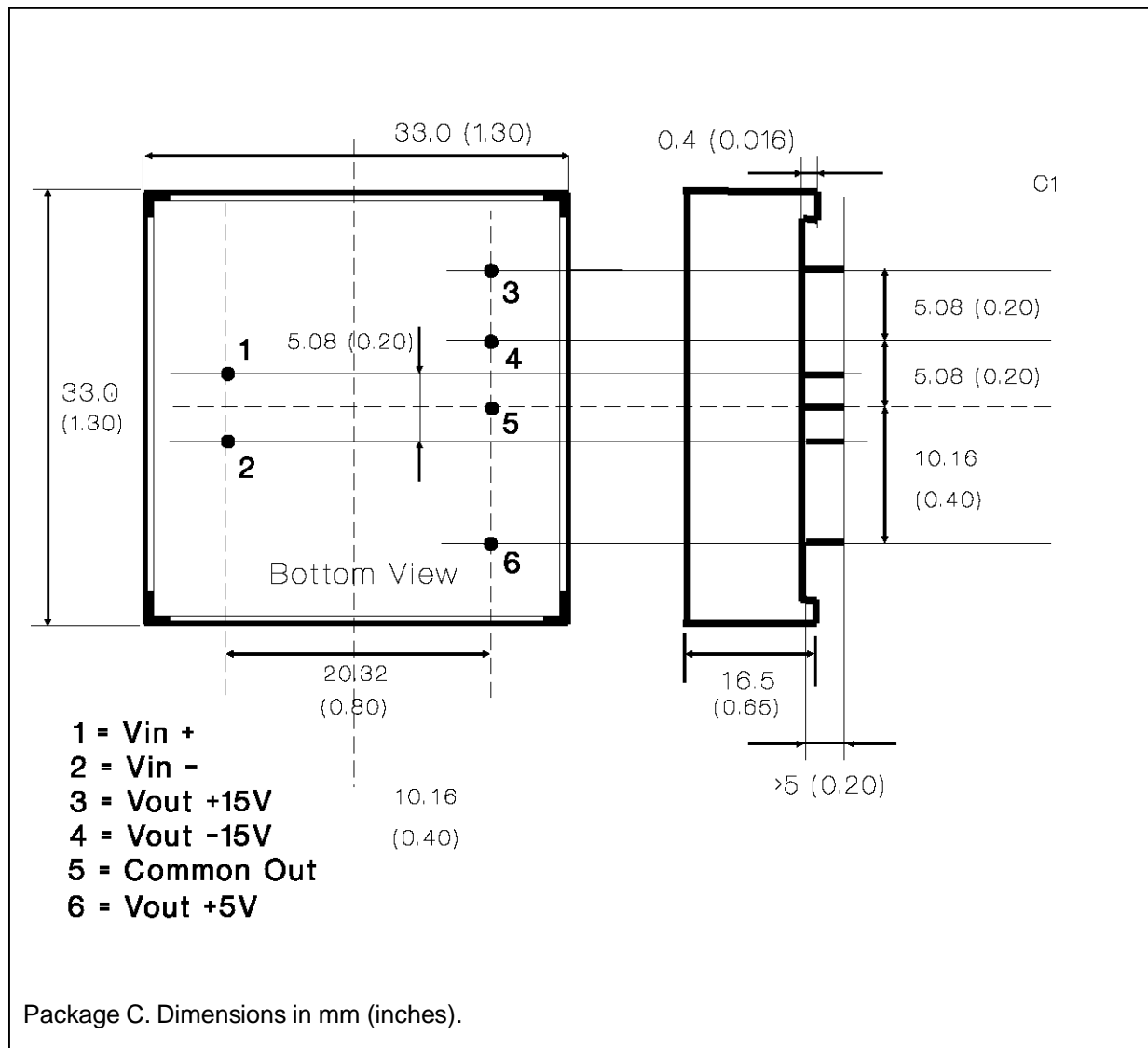
The module operates from a 5V input source and offers 2500Vdc isolation.



### ELECTRICAL CHARACTERISTICS (T<sub>amb.</sub> = 25° C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V <sub>i</sub>	Input Voltage	V <sub>O1</sub> = +5V V <sub>O2</sub> = +15V V <sub>O3</sub> = -15V I <sub>O1</sub> = 3 to 50mA I <sub>O2</sub> = 5 to 70mA I <sub>O3</sub> = -5 to -70mA	4.7	5.0	5.3	V
I <sub>ir</sub>	Input Reflected Current	V <sub>i</sub> = 4.7 to 5.3V Full Load			150	mApp
V <sub>O1</sub>	Output Voltage 1	V <sub>i</sub> = 4.7 to 5.3V I <sub>O1</sub> = 3 to 50mA	4.75	5.00	5.25	V
V <sub>O2</sub>	Output Voltage 2	V <sub>i</sub> = 4.7 to 5.3V I <sub>O2</sub> = 5 to 70mA	14.25	15.00	15.75	V
V <sub>O3</sub>	Output Voltage 3	V <sub>i</sub> = 4.7 to 5.3V I <sub>O3</sub> = -5 to -70mA	-14.25	-15.00	-15.75	V
V <sub>or1</sub>	Output Ripple Voltage 1	V <sub>i</sub> = 4.7 to 5.3V I <sub>O1</sub> = 50mA			50	mVpp
V <sub>or2</sub>	Output Ripple Voltage 2	V <sub>i</sub> = 4.7 to 5.3V I <sub>O2</sub> = 70mA			100	mVpp
V <sub>or3</sub>	Output Ripple Voltage 3	V <sub>i</sub> = 4.7 to 5.3V I <sub>O3</sub> = -70mA			100	mVpp
I <sub>O1</sub>	Output Current 1	V <sub>i</sub> = 4.7 to 5.3V V <sub>O1</sub> = 5V	3		50	mA
I <sub>O2</sub>	Output Current 2	V <sub>i</sub> = 4.7 to 5.3V V <sub>O2</sub> = +15V	5		70	mA
I <sub>O3</sub>	Output Current 3	V <sub>i</sub> = 4.7 to 5.3V V <sub>O3</sub> = -15V	-5		-70	mA
V <sub>is</sub>	Isolation Voltage		2500			Vdc
f <sub>s</sub>	Switching Frequency	V <sub>i</sub> = 5V Full Load		50		kHz
η	Efficiency	V <sub>i</sub> = 5V Full Load	70	75		%
T <sub>op</sub>	Operating Temperature Range		0		+70	°C
T <sub>stg</sub>	Storage Temperature Range		-40		+85	°C

CONNECTION DIAGRAM AND MECHANICAL DATA



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