

2 W TRIPLE OUTPUT DC-DC CONVERTER

Type	V _{in}	V _{out}	I _{out}
GS2T5-5D15	5 V	+ 5 V	+ 50 mA
		+ 15 V	+ 70 mA
		- 15 V	- 70 mA



DESCRIPTION

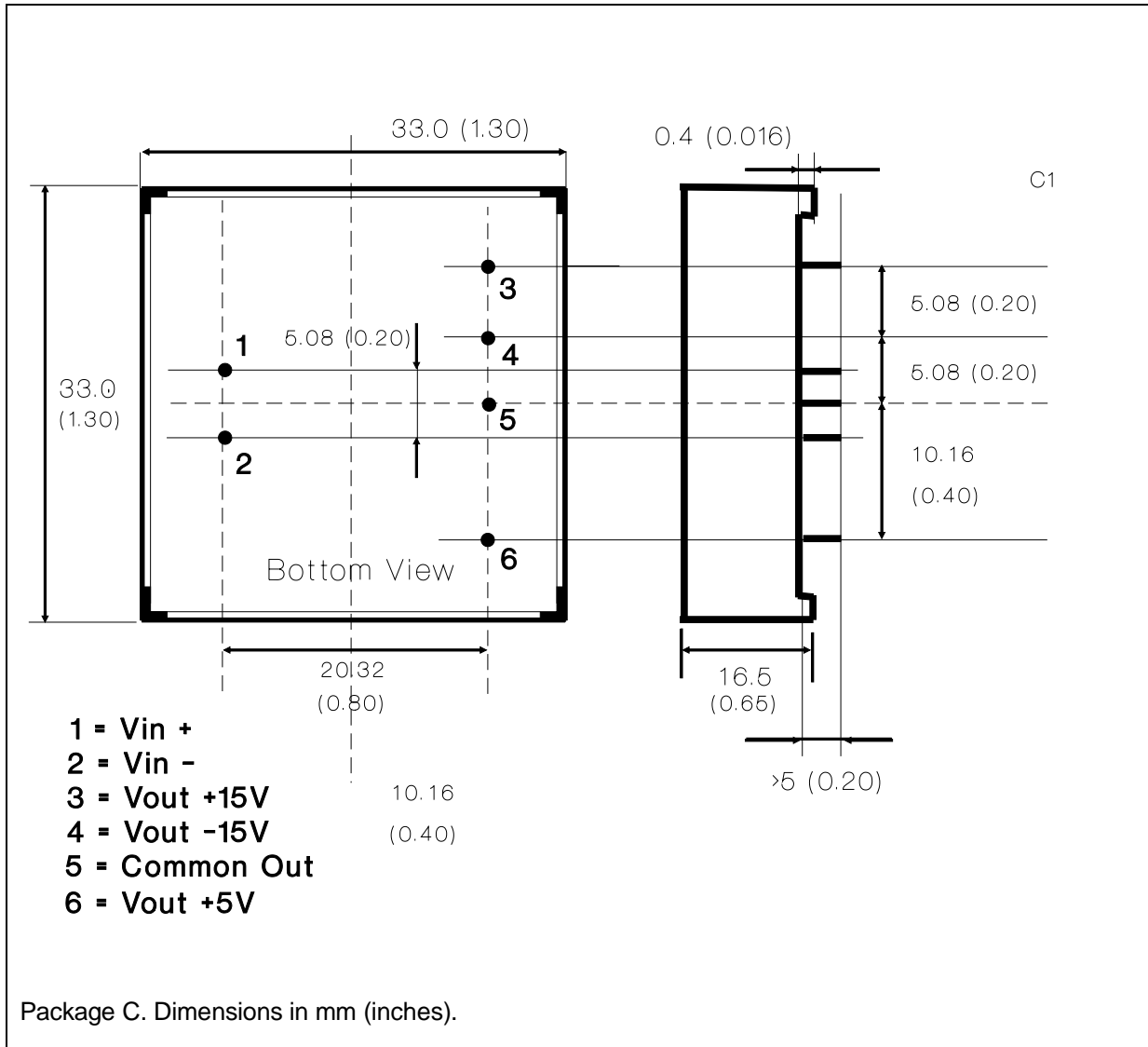
The GS2T5-5D15 is a 2.3W DC-DC converter designed to provide an isolated 5V/50mA, +15V/70mA and -15V/70mA power source.

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

ELECTRICAL CHARACTERISTICS (T_{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 50mA I _{o2} = 5 to 70mA I _{o3} = -5 to -70mA	4.7	5.0	5.3	V
I _{ir}	Input Reflected Current	V _i = 4.7 to 5.3V Full Load			150	mApp
V _{o1}	Output Voltage 1	V _i = 4.7 to 5.3V I _{o1} = 3 to 50mA	4.75	5.00	5.25	V
V _{o2}	Output Voltage 2	V _i = 4.7 to 5.3V I _{o2} = 5 to 70mA	14.25	15.00	15.75	V
V _{o3}	Output Voltage 3	V _i = 4.7 to 5.3V I _{o3} = -5 to -70mA	-14.25	-15.00	-15.75	V
V _{or1}	Output Ripple Voltage 1	V _i = 4.7 to 5.3V I _{o1} = 50mA			50	mVpp
V _{or2}	Output Ripple Voltage 2	V _i = 4.7 to 5.3V I _{o2} = 70mA			100	mVpp
V _{or3}	Output Ripple Voltage 3	V _i = 4.7 to 5.3V I _{o3} = -70mA			100	mVpp
I _{o1}	Output Current 1	V _i = 4.7 to 5.3V V _{o1} = 5V	3		50	mA
I _{o2}	Output Current 2	V _i = 4.7 to 5.3V V _{o2} = +15V	5		70	mA
I _{o3}	Output Current 3	V _i = 4.7 to 5.3V V _{o3} = -15V	-5		-70	mA
V _{is}	Isolation Voltage		2500			Vdc
f _s	Switching Frequency	V _i = 5V Full Load		50		kHz
η	Efficiency	V _i = 5V Full Load	70	75		%
T _{op}	Operating Temperature Range		0		+70	°C
T _{stg}	Storage Temperature Range		-40		+85	°C

CONNECTION DIAGRAM AND MECHANICAL DATA



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