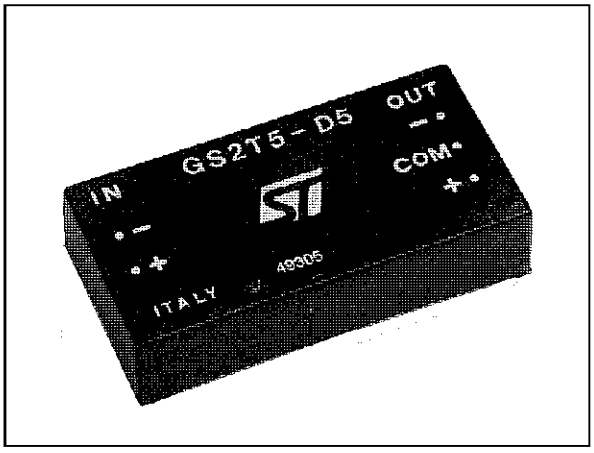
SGS-THOMSON MICROELECTRONICS

GS2T5-D5

2W DUAL OUTPUT DC-DC CONVERTER

Type	V_{in}	V_{out}	I_{out}
GS2T5-D5	5 V	±5 V	±200 mA



DESCRIPTION

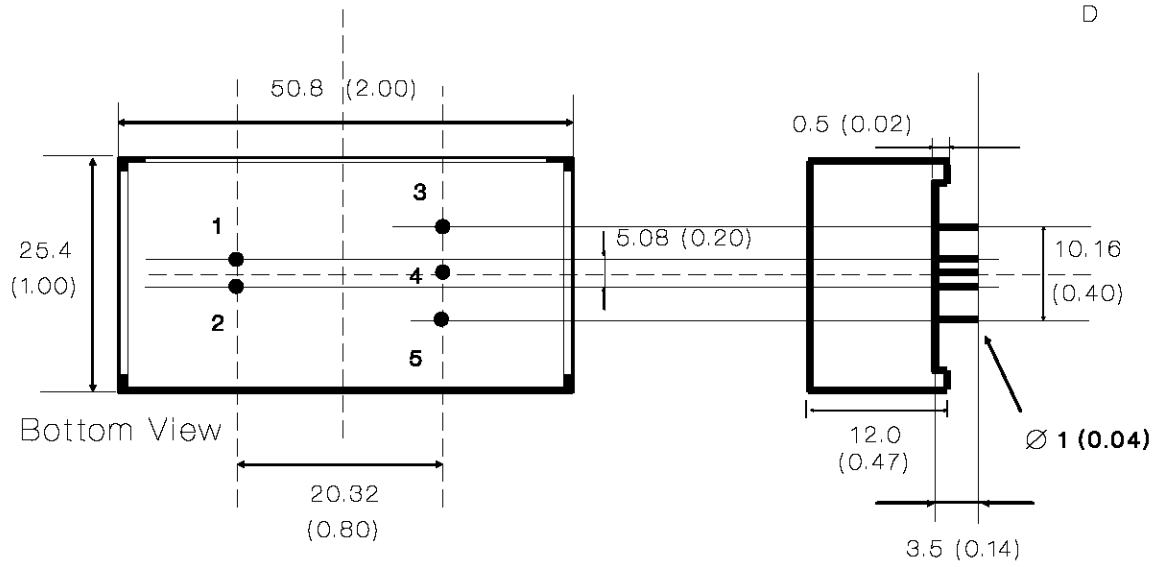
The GS2T5-D5 is a 2W DC-DC converter designed to provide an isolated +5V/200mA and -5V/200mA power source.

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 I_{o1}= 0 to 200mA V_{o2} = -5V I_{o2} = 0 to -200mA	4.75	5.00	5.25	V
I_{ir}	Input Reflected Current	V_i= 4.75 to 5.25V Full Load		25	40	mApp
V_{o1}	Output Voltage 1	V_i = 4.75 to 5.25V I_{o1} = 0 to 200mA	4.75	5.00	5.25	V
V_{o2}	Output Voltage 2	V_i = 4.75 to 5.25V I_{o2} = 0 to -200mA	-4.75	-5.00	-5.25	V
V_{or1}	Output Ripple Voltage 1	V_i = 4.75 to 5.25 I_{o1} = 200mA			20	mVrms
V_{or2}	Output Ripple Voltage 2	V_i = 4.75 to 5.25 I_{o2} = -200mA			20	mVrms
I_{o1}	Output Current 1	V_i = 4.75 to 5.25V V_{o1} = 5V	0		200	mA
I_{o2}	Output Current 2	V_i = 4.75 to 5.25V V_{o2} = -5V	0		-200	mA
V_{is}	Isolation Voltage		2500			Vdc
f_S	Switching Frequency	V_i = 5V Full Load		20		kHz
η	Efficiency	V_i= 5V Full Load	55	62		%
T_{op}	Operating Ambient Temperature Range		0		+55	°C
T_{stg}	Storage Temperature Range		-40		+85	°C

CONNECTION DIAGRAM AND MECHANICAL DATA



1 = Vin +
2 = Vin -
3 = Vout +
4 = Common Out
5 = Vout -

Package D. Dimensions in mm (inches)