

**2 W DC-DC CONVERTER**

Type	V <sub>in</sub>	V <sub>out</sub>	I <sub>out</sub>
GS2T5-12	5 V	12 V	200 mA

**DESCRIPTION**

The GS2T5-12 is a 2.4W DC-DC converter designed to provide an isolated 12V/200mA power source.

The module operates from a 5V input source and features continuous short-circuit protection.

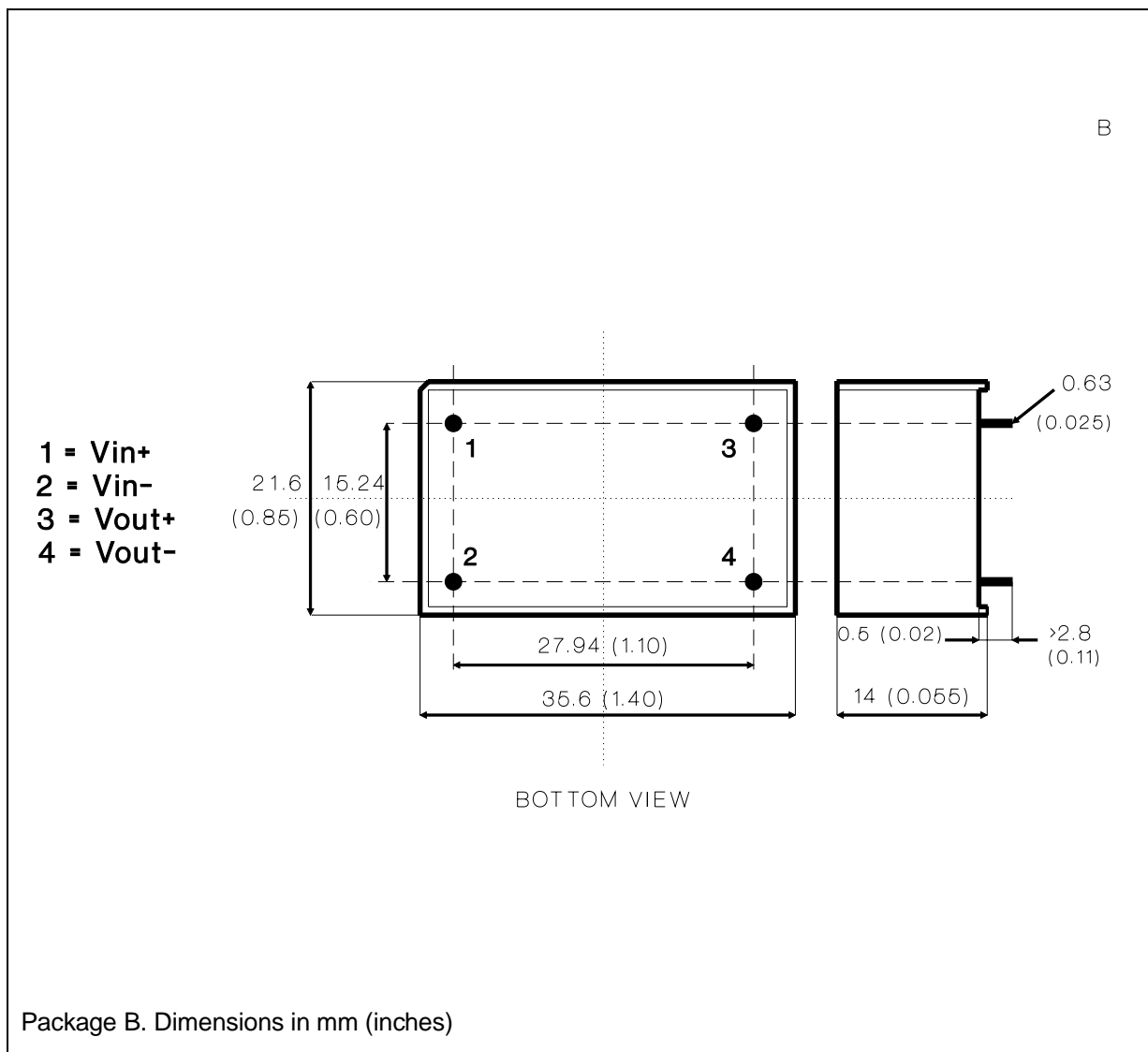
An input filter minimizes the reflected input current.



**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>O</sub> = 12V I <sub>O</sub> = 0 to 200mA	4.5	5	5.5	V
I <sub>ir</sub>	Input Reflected Current	V <sub>i</sub> = 5V V <sub>O</sub> = 12V I <sub>O</sub> = 200mA		20	30	mApp
V <sub>O</sub>	Output Voltage	V <sub>i</sub> = 4.5 to 5.5V I <sub>O</sub> = 0 to 200mA	11.4	12.0	12.6	V
V <sub>or</sub>	Output Ripple Voltage	V <sub>i</sub> = 5V I <sub>O</sub> = 200mA		5	10	mVrms
δV <sub>O</sub>	Line Regulation	V <sub>i</sub> = 4.5 to 5.5 I <sub>O</sub> = 200mA			10	mV
δV <sub>O</sub>	Load Regulation	V <sub>i</sub> = 5V I <sub>O</sub> = 50 to 200mA			10	mV
I <sub>O</sub>	Output Current	V <sub>i</sub> = 4.5 to 5.5V V <sub>O</sub> = 12V	50		200	mA
V <sub>is</sub>	Isolation Voltage		2500			Vdc
η	Efficiency	V <sub>i</sub> = 5V I <sub>O</sub> = 200mA	65	70		%
T <sub>op</sub>	Operating Ambient Temperature Range		0		+60	°C
T <sub>stg</sub>	Storage Temperature Range		-40		+85	°C

## CONNECTION DIAGRAM AND MECHANICAL DATA



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