

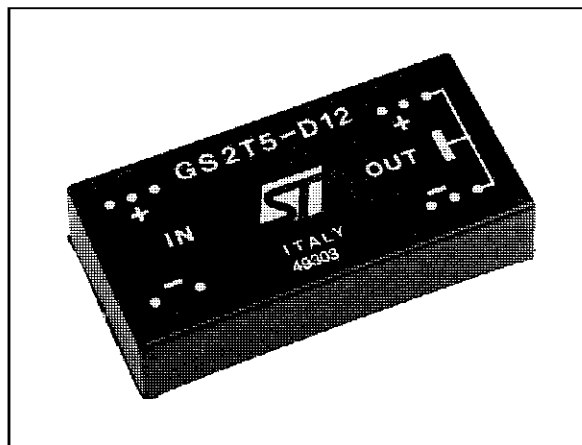
**2W DUAL OUTPUT DC-DC CONVERTER**

| Type      | V <sub>in</sub> | V <sub>out</sub> | I <sub>out</sub> |
|-----------|-----------------|------------------|------------------|
| GS2T5-D12 | 5 V             | ±12 V            | ±100mA           |

**DESCRIPTION**

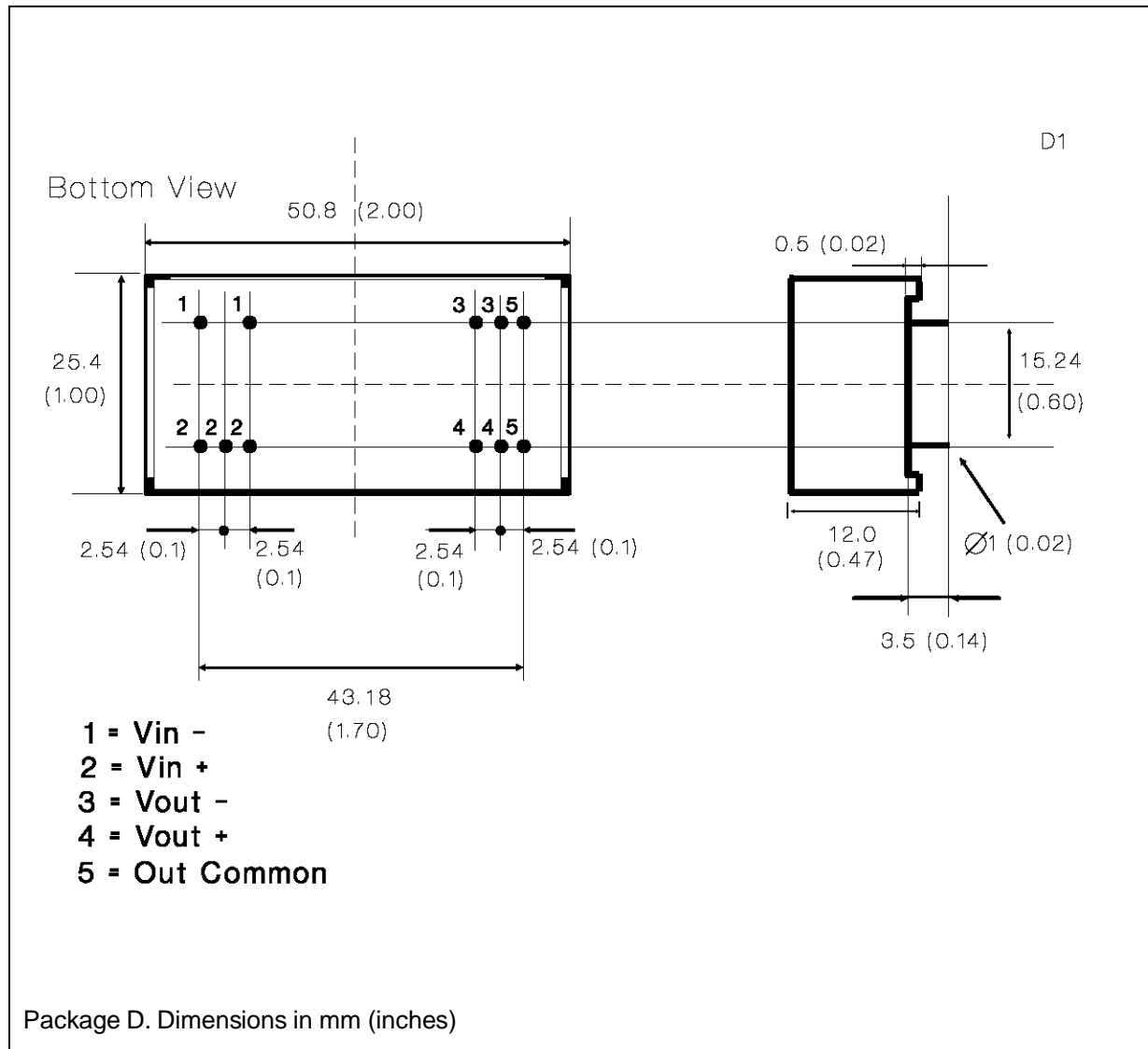
The GS2T5-D12 is a 2W DC-DC converter designed to provide an isolated +12V/100mA and -12V/100mA power source.

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> = +12V<br>V <sub>o2</sub> = -12V<br>I <sub>o1</sub> = 0 to 100mA<br>I <sub>o2</sub> = 0 to -100mA | 4.75  | 5.00  | 5.25  | V     |
| I <sub>ir</sub>  | Input Reflected Current     | V <sub>i</sub> = 4.75 to 5.25V<br>Full Load   |       | 50    | 75    | mApp  |
| V <sub>o1</sub>  | Output Voltage 1            | V <sub>i</sub> = 4.75 to 5.25V<br>I <sub>o1</sub> = 0 to 100mA  | 10.8  | 12.0  | 13.2  | V     |
| V <sub>o2</sub>  | Output Voltage 2            | V <sub>i</sub> = 4.75 to 5.25V<br>I <sub>o2</sub> = 0 to -100mA   | -10.8 | -12.0 | -13.2 | V     |
| V <sub>or1</sub> | Output Ripple Voltage 1     | V <sub>i</sub> = 4.75 to 5.25<br>I <sub>o1</sub> = 100mA  |       |       | 100   | mVrms |
| V <sub>or2</sub> | Output Ripple Voltage 2     | V <sub>i</sub> = 4.75 to 5.25<br>I <sub>o2</sub> = -100mA   |       |       | 100   | mVrms |
| I <sub>o1</sub>  | Output Current 1            | V <sub>i</sub> = 4.75 to 5.25V<br>V <sub>o1</sub> = 12V   | 0     |       | 100   | mA    |
| I <sub>o2</sub>  | Output Current 2            | V <sub>i</sub> = 4.75 to 5.25V<br>V <sub>o2</sub> = -12V  | 0     |       | -100  | mA    |
| V <sub>is</sub>  | Isolation Voltage           |   | 2500  |       |       | Vdc   |
| η                | Efficiency                  | V <sub>i</sub> = 5V<br>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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