

## 2W DUAL OUTPUT DC-DC CONVERTER

| Type     | V <sub>in</sub> | V <sub>out</sub> | I <sub>out</sub> |
|----------|-----------------|------------------|------------------|
| 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.

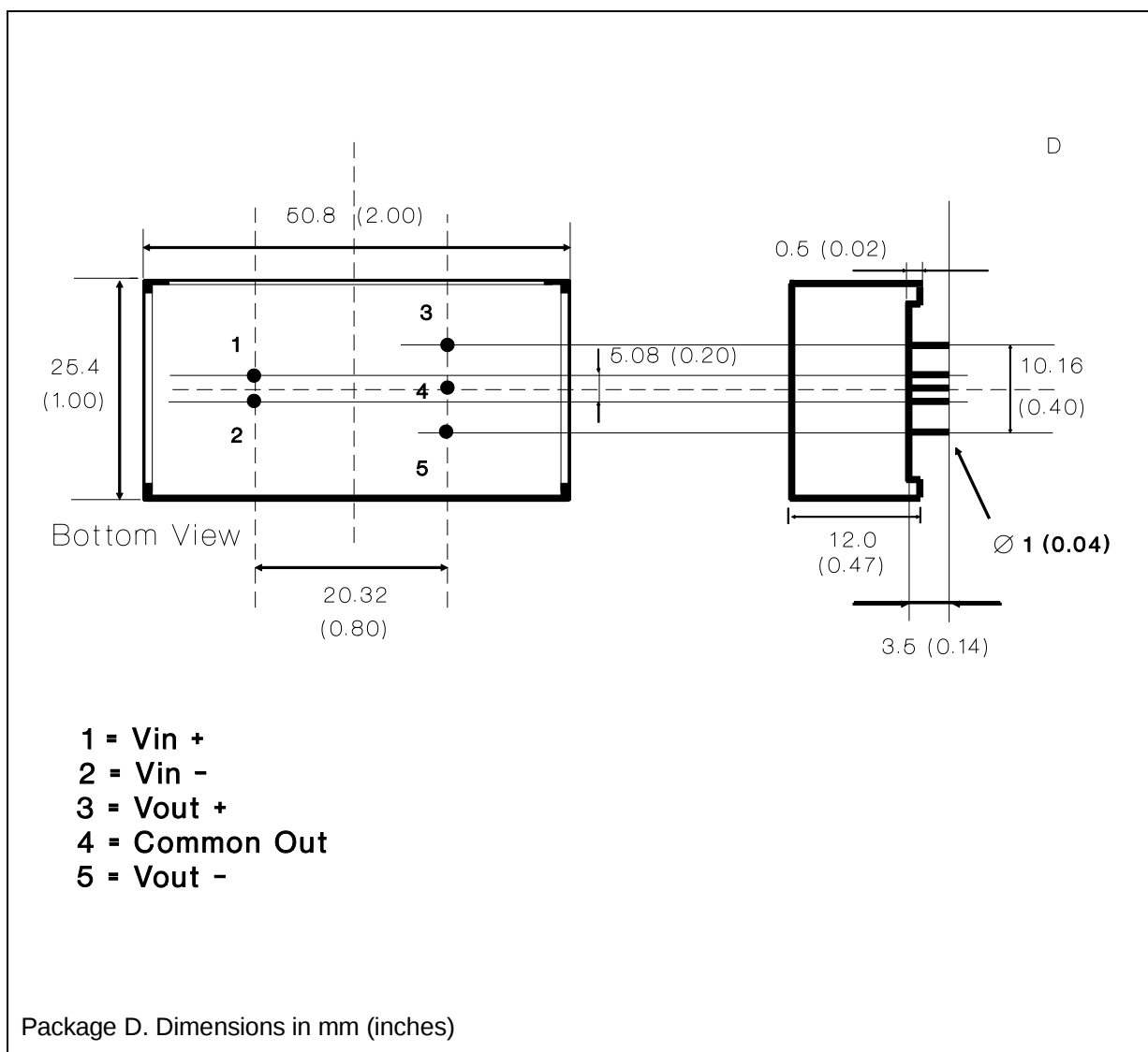
The module operates from a 5V input source and offers 2500Vdc isolation.



### ELECTRICAL CHARACTERISTICS (T<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<br>V <sub>o2</sub> = -5V<br>I <sub>o1</sub> = 0 to 200mA<br>I <sub>o2</sub> = 0 to -200mA | 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                                                                     |       | 25    | 40    | mApp  |
| V <sub>o1</sub>  | Output Voltage 1                    | V <sub>i</sub> = 4.75 to 5.25V<br>I <sub>o1</sub> = 0 to 200mA                                                  | 4.75  | 5.00  | 5.25  | V     |
| V <sub>o2</sub>  | Output Voltage 2                    | V <sub>i</sub> = 4.75 to 5.25V<br>I <sub>o2</sub> = 0 to -200mA                                                 | -4.75 | -5.00 | -5.25 | V     |
| V <sub>or1</sub> | Output Ripple Voltage 1             | V <sub>i</sub> = 4.75 to 5.25<br>I <sub>o1</sub> = 200mA                                                        |       |       | 20    | mVrms |
| V <sub>or2</sub> | Output Ripple Voltage 2             | V <sub>i</sub> = 4.75 to 5.25<br>I <sub>o2</sub> = -200mA                                                       |       |       | 20    | mVrms |
| I <sub>o1</sub>  | Output Current 1                    | V <sub>i</sub> = 4.75 to 5.25V<br>V <sub>o1</sub> = 5V                                                          | 0     |       | 200   | mA    |
| I <sub>o2</sub>  | Output Current 2                    | V <sub>i</sub> = 4.75 to 5.25V<br>V <sub>o2</sub> = -5V                                                         | 0     |       | -200  | mA    |
| V <sub>is</sub>  | Isolation Voltage                   |                                                                                                                 | 2500  |       |       | Vdc   |
| f <sub>s</sub>   | Switching Frequency                 | V <sub>i</sub> = 5V<br>Full Load                                                                                |       | 20    |       | kHz   |
| η                | Efficiency                          | V <sub>i</sub> = 5V<br>Full Load                                                                                | 55    | 62    |       | %     |
| T <sub>op</sub>  | Operating Ambient Temperature Range |                                                                                                                 | 0     |       | +55   | °C    |
| T <sub>stg</sub> | Storage Temperature Range           |                                                                                                                 | -40   |       | +85   | °C    |

## CONNECTION DIAGRAM AND MECHANICAL DATA



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