

## 2 W DC-DC CONVERTER

| Type    | $V_i$ | $V_o$ | $I_o$  |
|---------|-------|-------|--------|
| GS2T5-5 | 5 V   | 5 V   | 400 mA |

### DESCRIPTION

The GS2T5-5 is a 2W DC-DC converter designed to provide an isolated 5V/400mA power source.

The module operates from a 5V input source and it offers 1500V<sub>DC</sub> isolation.

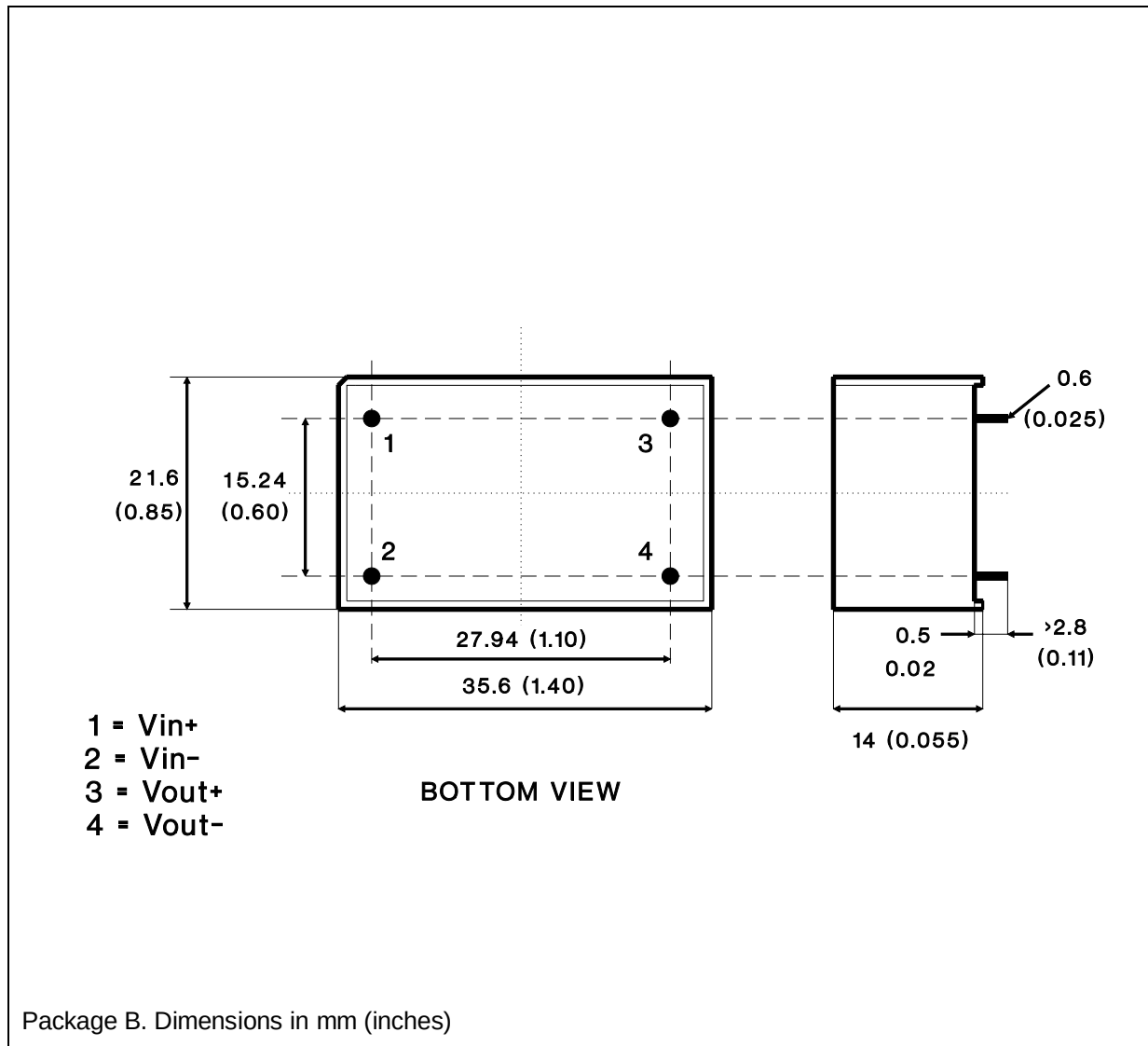


### ELECTRICAL CHARACTERISTICS ( $T_{amb.} = 25^{\circ}C$ unless otherwise specified)

| Symbol          | Parameter                           | Test Conditions                           | Min  | Typ | Max  | Unit        |
|-----------------|-------------------------------------|-------------------------------------------|------|-----|------|-------------|
| $V_i$           | Input Voltage                       | $V_o = 5V$ $I_o = 0$ to 400mA             | 4.50 | 5   | 5.50 | V           |
| $I_{ir}$        | Input Reflected Current             | $V_i = 5V$ $V_o = 5V$ $I_o = 400mA$       |      | 25  | 40   | mApp        |
| $V_o$           | Output Voltage                      | $V_i = 4.5$ to 5.5V $I_o = 0$ to 400mA    | 4.75 | 5   | 5.25 | V           |
| $V_{or}$        | Output Ripple Voltage               | $V_i = 5V$ $V_o = 5V$ $I_o = 40$ to 400mA |      | 90  | 120  | mVpp        |
| $\delta V_{OL}$ | Line Regulation                     | $V_i = 4.5$ to 5.5V $I_o = 400mA$         |      |     | 5    | mV          |
| $\delta V_{OO}$ | Load Regulation                     | $V_i = 5V$ $I_o = 40$ to 400mA            |      |     | 10   | mV          |
| $I_o$           | Output Current*                     | $V_i = 4.5$ to 5.5V $V_o = 5V$            | 0    |     | 400  | mA          |
| $V_{is}$        | Isolation Voltage                   | Input to Output                           | 1500 |     |      | VDC         |
| $\eta$          | Efficiency                          | $V_i = 5V$ $V_o = 5V$ $I_o = 400mA$       | 67   | 70  |      | %           |
| $T_{op}$        | Operating Ambient Temperature Range |                                           | 0    |     | +70  | $^{\circ}C$ |
| $T_{stg}$       | Storage Temperature Range           |                                           | -40  |     | +85  | $^{\circ}C$ |

\* Note: when output current is less than 40mA, output ripple voltage increases due to discontinuous operation.

## CONNECTION DIAGRAM AND MECHANICAL DATA



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