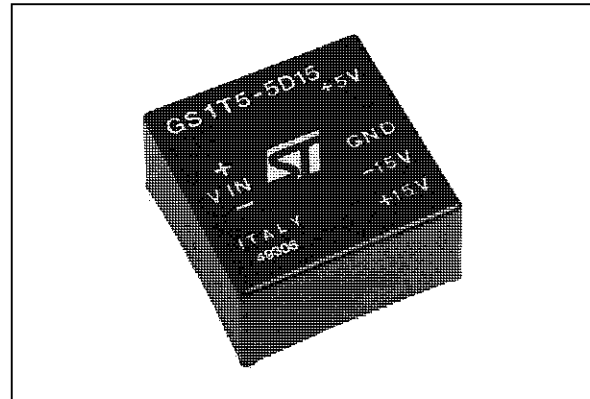


1 W TRIPLE OUTPUT DC-DC CONVERTER

| Type | V _i | V _o | I _o |
|------------|----------------|----------------|----------------|
| GS1T5-5D15 | 5 V | + 5 V | + 20 mA |
| | | + 15 V | + 15 mA |
| | | - 15 V | - 15 mA |



DESCRIPTION

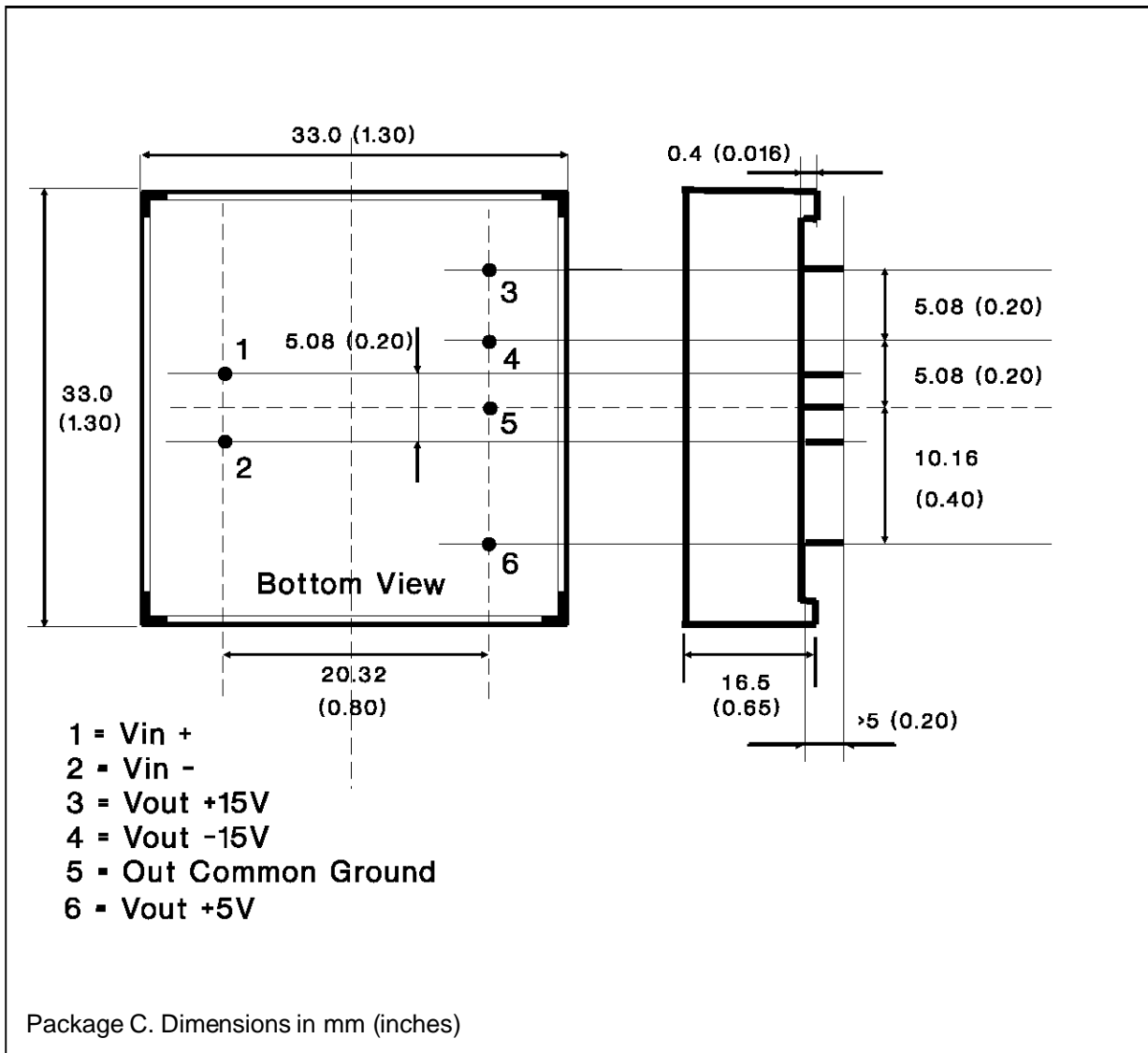
The GS1T5-5D15 is a 0.6W DC-DC converter designed to provide an isolated 5V/20mA, +15V/15mA and -15V/15mA power source.

The module operates from a 5V input source and offers 2500V_{DC} 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 V _{o2} = +15V V _{o3} = -15V I _{o1} = 3 to 20mA I _{o2} = 5 to 15mA I _{o3} = -5 to -15mA | 4.7 | 5.0 | 5.3 | V |
| I _{ir} | Input Reflected Current | V _i = 4.7 to 5.3V Full Load | | | 10 | mApp |
| V _{o1} | Output Voltage 1 | V _i = 4.7 to 5.3V I _{o1} = 3 to 20mA | 4.75 | 5.00 | 5.25 | V |
| V _{o2} | Output Voltage 2 | V _i = 4.7 to 5.3V I _{o2} = 5 to 15mA | 14.25 | 15.00 | 15.75 | V |
| V _{o3} | Output Voltage 3 | V _i = 4.7 to 5.3V I _{o3} = -5 to -15mA | -14.25 | -15.00 | -15.75 | V |
| I _{o1} | Output Current 1 | V _i = 4.7 to 5.3V V _{o1} = 5V | 3 | | 20 | mA |
| I _{o2} | Output Current 2 | V _i = 4.7 to 5.3V V _{o2} = +15V | 5 | | 15 | mA |
| I _{o3} | Output Current 3 | V _i = 4.7 to 5.3V V _{o3} = -15V | -5 | | -15 | mA |
| V _{or1} | Output Ripple Voltage 1 | V _i = 4.7 to 5.3V I _{o1} = 20mA | | | 30 | mVpp |
| V _{or2} | Output Ripple Voltage 2 | V _i = 4.7 to 5.3V I _{o2} = 15mA | | | 70 | mVpp |
| V _{or3} | Output Ripple Voltage 3 | V _i = 4.7 to 5.3V I _{o3} = -15mA | | | 70 | mVpp |
| V _{is} | Isolation voltage | | 2500 | | | Vdc |
| η | Efficiency | V _i = 5V Full Load | 68 | 73 | | % |
| f _s | Switching Frequency | V _i = 5V Full Load | | 150 | | kHz |
| T _{op} | Operating Ambient Temperature Range | | 0 | | +80 | °C |
| T _{stg} | Storage Temperature Range | | -40 | | +85 | °C |

CONNECTION DIAGRAM AND MECHANICAL DATA



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