

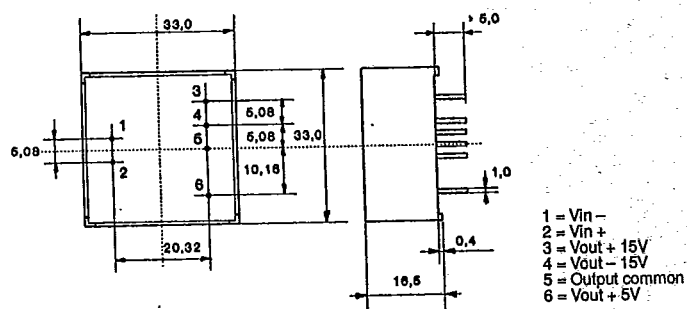
**TRIPLE OUTPUT DC-DC CONVERTER****DESCRIPTION**

The GS-215-5D15 is a 2.3W DC-DC converter designed to provide an isolated 5V/50mA, +15V/70mA and -15V/70mA power source.

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

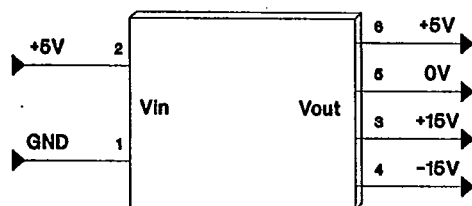
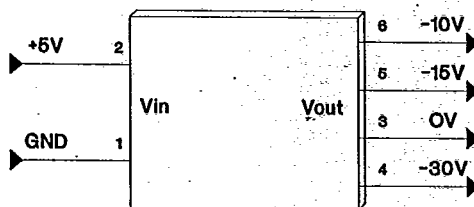
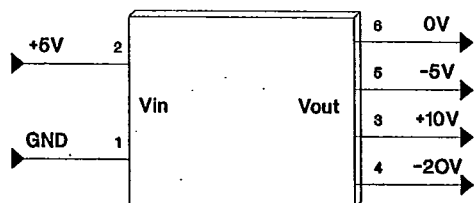
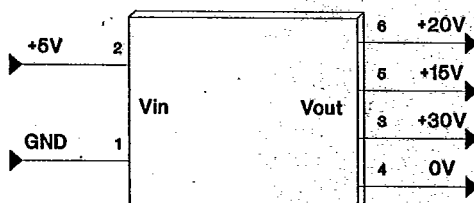
**ELECTRICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$  unless otherwise specified)

| Symbol    | Parameter               | Test Conditions                                    | Min    | Typ  | Max    | Unit             |
|-----------|-------------------------|----------------------------------------------------|--------|------|--------|------------------|
| $V_i$     | Input Voltage           | $I_{o1} = 3$ to 50mA $I_{o2} = I_{o3} = 5$ to 70mA | 4.70   | 5.00 | 5.30   | V                |
| $I_i$     | Input Current           | $V_i = 4.7$ to 5.3V $I_o = \text{Full Load}$       |        |      | 900    | mA               |
| $I_i$     | Input Current           | $V_i = 4.7$ to 5.3V $I_o = \text{No Load}$         |        |      | 60     | mA               |
| $V_{o1}$  | Output Voltage 1        | $V_i = 4.7$ to 5.3V $I_{o1} = 3$ to 50mA           | 4.75   |      | 5.25   | V                |
| $V_{o2}$  | Output Voltage 2        | $V_i = 4.7$ to 5.3V $I_{o2} = 5$ to 70mA           | 14.25  |      | 15.75  | V                |
| $V_{o3}$  | Output Voltage 3        | $V_i = 4.7$ to 5.3V $I_{o3} = 5$ to 70mA           | -14.25 |      | -15.75 | V                |
| $\eta$    | Efficiency              | $V_i = 5.0\text{V}$ $I_o = \text{Full Load}$       | 70     | 75   |        | %                |
| $V_{or}$  | Output Ripple Voltage   | $V_i = 4.7$ to 5.3V $I_o = \text{Full Load}$       |        |      | 50     | mVpp             |
| $I_{ir}$  | Input Reflected Current | $V_i = 4.7$ to 5.3V $I_o = \text{Full Load}$       |        |      | 150    | mApp             |
| $f_{op}$  | Operating Frequency     | $V_i = 5.0\text{V}$ $I_o = \text{Full Load}$       |        | 50   |        | kHz              |
| $T_{stg}$ | Storage Temperature     |                                                    | -20    |      | +85    | $^\circ\text{C}$ |
| $T_{op}$  | Operating Temperature   |                                                    | 0      |      | +70    | $^\circ\text{C}$ |

**CONNECTION DIAGRAM AND MECHANICAL DATA**

Dimensions in mm

bottom view

**OUTPUT CONFIGURATION OPTIONS**GS-115-5D15  
GS-215-5D15GS-115-5D15  
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GS-215-5D15