

# 1.0 WATT MINATURE SMD DC/DC CONVERTERS

## FEATURES

- ❶ 1 Watt Isolated Outputs
- ❷ Miniature SMD Package
- ❸ 1000Vdc Isolation

## GENERAL SPECIFICATIONS

- Efficiency (unregulated) ..... 70%
- Switching Frequency ..... 20KHz min.
- Isolation Voltage ..... 1000Vdc min.
- Operating Temperature ..... 0 to +70°C
- Storage Temperature ..... -40 to +85°C

## INPUT SPECIFICATIONS

- Voltage ..... 5 or 12Vdc
- Voltage Range ..... ±5%
- Input Filter ..... Cap

## OUTPUT SPECIFICATIONS

- Voltage ..... Per Table
- Voltage Accuracy ..... ±5%
- Ripple & Noise 20MHz BW ..... 100mV p-p
- Line Regulation (unregulated)..... ±1.2%
- Load Regulation (unregulated)..... ±10%

### ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE 0°C TO 70°C

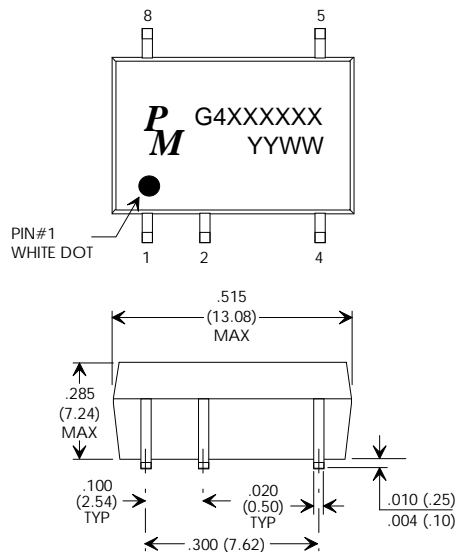
| PART NUMBER | INPUT VOLTAGE (Vdc) | OUTPUT VOLTAGE (Vdc) | OUTPUT CURRENT (mA Max.) | TYPICAL EFFICIENCY (% Typ.) |
|-------------|---------------------|----------------------|--------------------------|-----------------------------|
| G4050330    | 5                   | 3.3                  | 300                      | 70                          |
| G4050520    | 5                   | 5                    | 200                      | 70                          |
| G4050911    | 5                   | 9                    | 110                      | 75                          |
| G4050508    | 5                   | 12                   | 85                       | 75                          |
| G4051520    | 5                   | 15                   | 66                       | 75                          |

| PART NUMBER | INPUT VOLTAGE (Vdc) | OUTPUT VOLTAGE (Vdc) | OUTPUT CURRENT (mA Max.) | TYPICAL EFFICIENCY (% Typ.) |
|-------------|---------------------|----------------------|--------------------------|-----------------------------|
| G4120520    | 12                  | 5                    | 200                      | 70                          |
| G4120911    | 12                  | 9                    | 110                      | 75                          |
| G4121208    | 12                  | 12                   | 85                       | 75                          |
| G4121520    | 12                  | 15                   | 66                       | 75                          |

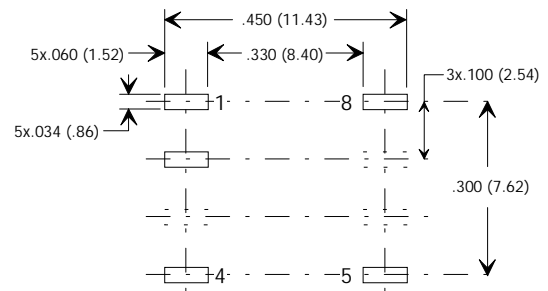
## PACKAGE

## PCB LAYOUT

### PHYSICAL DIMENSIONS .... DIMENSIONS IN mm (inches)



### RECOMMENDED P.C.B. LAYOUT Dimensions in inches (mm)



| PIN NUMBER | FUNCTION |
|------------|----------|
| 1          | -INPUT   |
| 2          | +INPUT   |
| 3          | OMITTED  |
| 4          | -OUTPUT  |
| 5          | +OUTPUT  |
| 6          | OMITTED  |
| 7          | OMITTED  |
| 8          | N.C.     |

Specifications subject to change without notice.

g4xxxxx01/02