

M4 SERIES P6DG-XXXXE 1KV ISOLATED 0,6 – 1,5 W REGULATED SINGLE OUTPUT DIP14

Available Inputs: 5, 12 and 24 VDC

Available Outputs: 3.0, 3.3, 5, 9, 12 and 15 VDC

Other specifications please enquire.

Electrical Specifications

(Typical at + 25° C, nominal input voltage, rated output current unless otherwise specified)

Input Specifications

Voltage range +/- 10 %
 Filter Capacitors

Isolation Specifications

Rated voltage 1000 VDC
 Leakage current 1 mA
 Resistance 10⁹ Ohm
 Capacitance 60 pF typ.

Output Specifications

Voltage accuracy +/- 1 %, max.
 Ripple and noise (at 20 MHz BW) 50 mV p-p, max.
 Short circuit protection Short term
 Line voltage regulation +/- 0,5 % max.
 Load voltage regulation +/- 0,5 % max.
 Temperature coefficient +/- 0,02 % / °C

General Specifications

Efficiency 60 % to 75 %
 Switching frequency 125 KHz, typ.

Environmental Specifications

Operating temperature (ambient) - 40° C to + 85° C
 Storage temperature - 55 °C to + 125 °C
 Derating See graph
 Humidity Up to 90 %, non condensing
 Cooling Free air convection

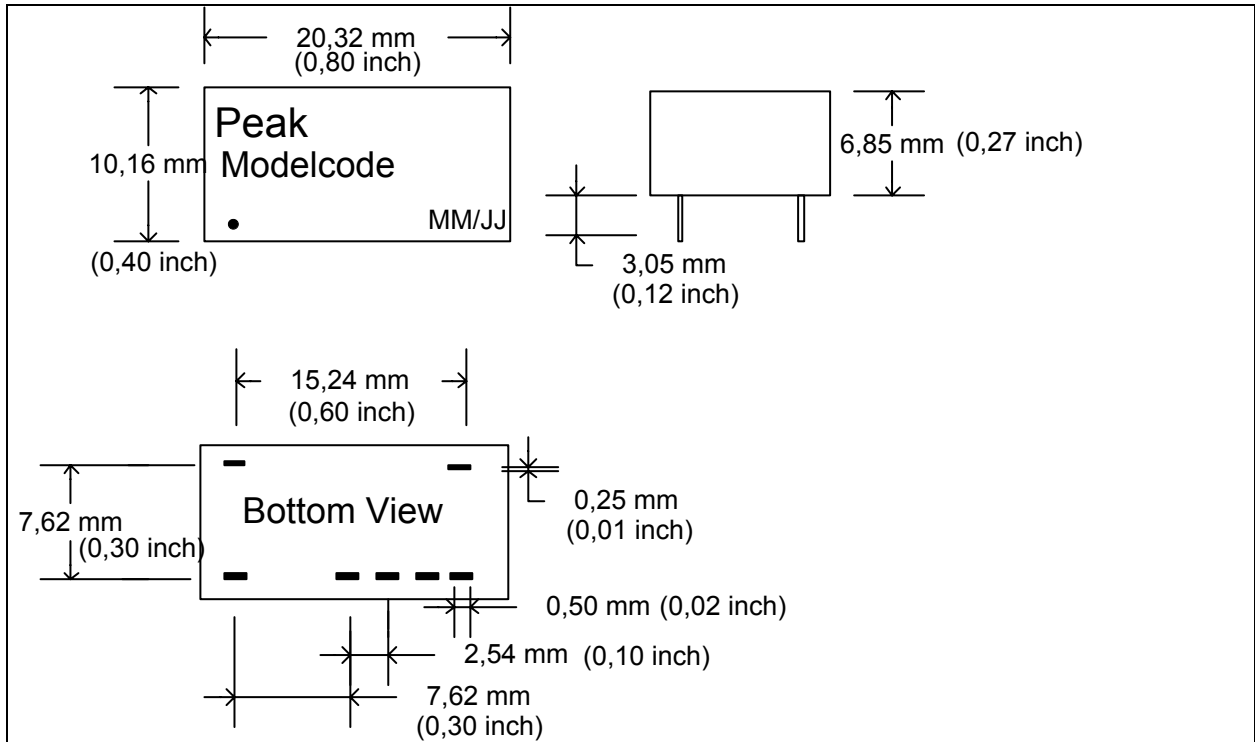
Physical Characteristics

Dimensions DIP 20,32 x 10,16 x 6,85 mm
 0,80 x 0,40 x 0,27 inches
 Weight 2,0 g
 Case material Non conductive black plastic

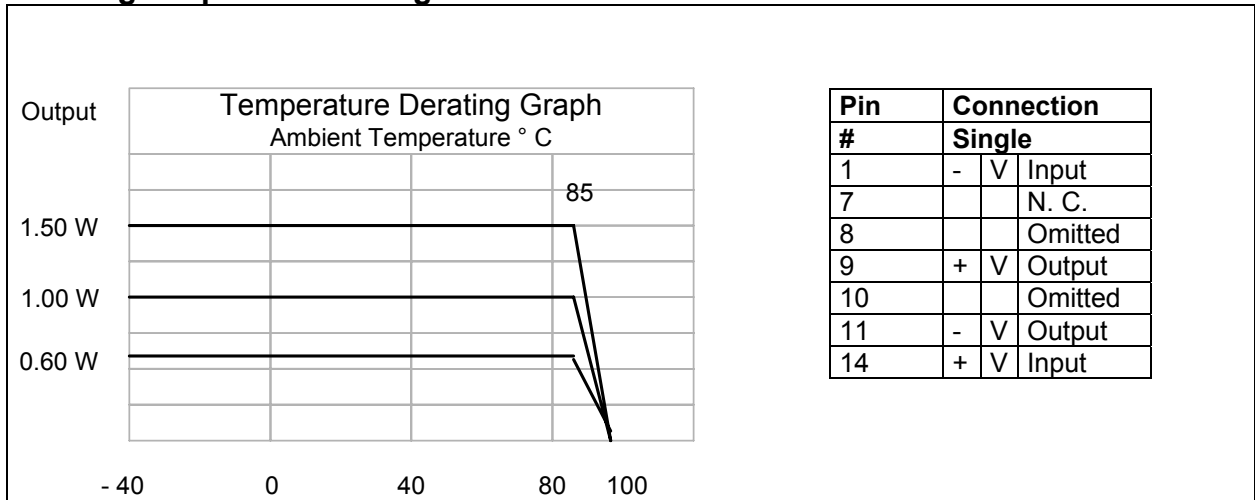
Examples of Partnumbers/Modelcode

| PART NO. | INPUT VOLTAGE (VDC) | INPUT CURRENT NO LOAD | INPUT CURRENT FULL LOAD | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (max. mA) | EFFICIENCY FULL LOAD (% TYP.) |
|-------------|---------------------|-----------------------|-------------------------|----------------------|--------------------------|-------------------------------|
| P6DG-0503E | 5 | 18 | 193 | 3 | 200 | 62 |
| P6DG-053R3E | 5 | 18 | 212 | 3,3 | 200 | 62 |
| P6DG-054R8E | 5 | 22 | 307 | 4,85 | 200 | 63 |
| P6DG-0505E | 5 | 26 | 312 | 5 | 200 | 64 |
| P6DG-0509E | 5 | 26 | 421 | 9 | 150 | 64 |
| P6DG-0512E | 5 | 26 | 375 | 12 | 100 | 64 |
| P6DG-1203E | 12 | 15 | 81 | 3 | 200 | 62 |
| P6DG-123R3E | 12 | 15 | 88 | 3,3 | 200 | 62 |
| P6DG-124R8E | 12 | 20 | 128 | 4,85 | 200 | 63 |
| P6DG-1205E | 12 | 23 | 130 | 5 | 200 | 64 |
| P6DG-1209E | 12 | 23 | 176 | 9 | 150 | 64 |
| P6DG-1212E | 12 | 23 | 156 | 12 | 100 | 64 |
| P6DG-2403E | 24 | 12 | 40 | 3 | 200 | 62 |
| P6DG-243R3E | 24 | 12 | 43 | 3,3 | 200 | 63 |
| P6DG-244R8E | 24 | 10 | 64 | 4,85 | 200 | 63 |
| P6DG-2405E | 24 | 10 | 64 | 5 | 200 | 65 |
| P6DG-2409E | 24 | 9 | 88 | 9 | 150 | 64 |
| P6DG-2412E | 24 | 9 | 78 | 12 | 100 | 64 |

Dimensions



Derating Graph and Pinning



| Pin # | Connection | | |
|-------|------------|---|---------|
| | Single | | |
| 1 | - | V | Input |
| 7 | | | N. C. |
| 8 | | | Omitted |
| 9 | + | V | Output |
| 10 | | | Omitted |
| 11 | - | V | Output |
| 14 | + | V | Input |