

M1 SERIES P6LU-XXXXE 3KV ISOLATED 1W UNREGULATED SINGLE OUTPUT SIP7

Available Inputs:

5, 12, 24 and 48 VDC

Available Outputs:

3.3, 5, 7.2, 12, 15 and 18 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 3000 VDC
Leakage current 1 mA
Resistance 10⁹ Ohm
Capacitance 60 pF typ.

Output Specifications

Voltage accuracy +/- 5 %, max.
Ripple and noise (at 20 MHz BW) 75 mV p-p, max.
Short circuit protection Momentary
Line voltage regulation +/- 1,2 % / 1,0 % of Vin
Load voltage regulation +/- 8 %, load = 20 ~ 100 %
Temperature coefficient +/- 0,02 % / °C

General Specifications

Efficiency 70 % to 85 %
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

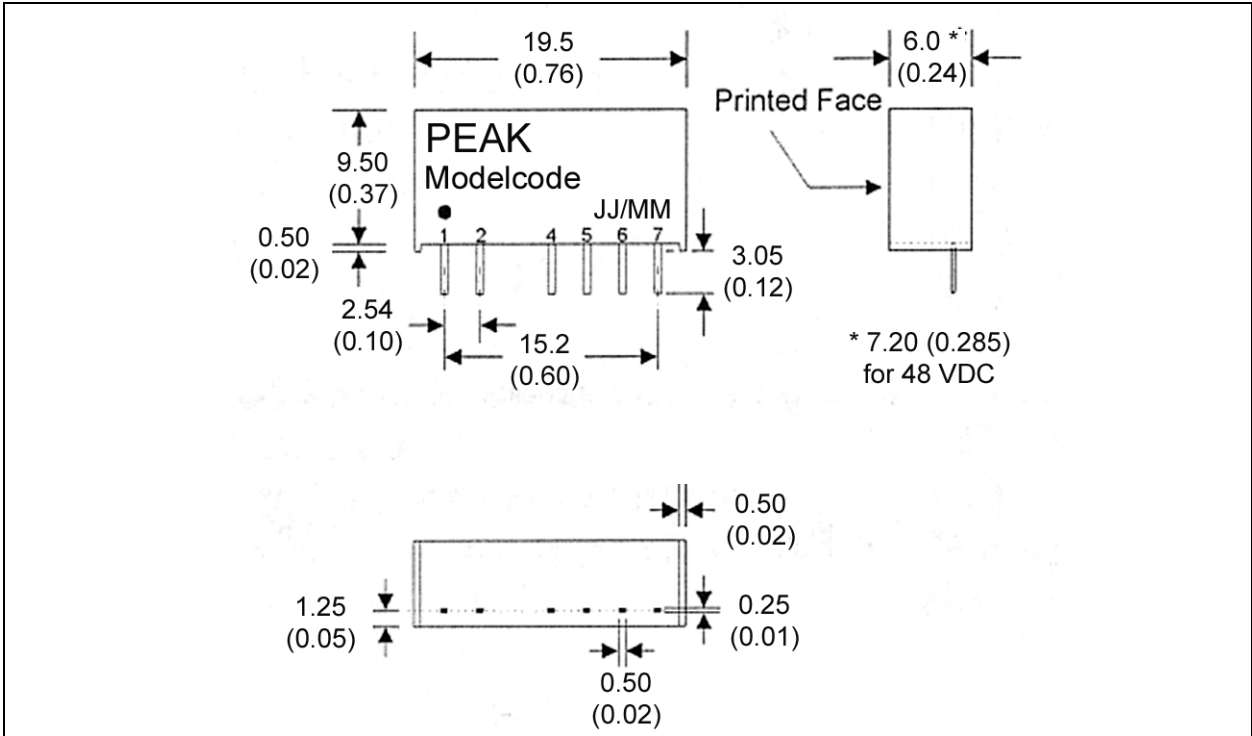
Physical Characteristics

Dimensions SIP 19,50 x 6,00 x 9,50 mm
0,76 x 0,24 x 0,37 inches
Weight 2 g, 3 g for the 48 VDC variants
Case material Non conductive black plastic

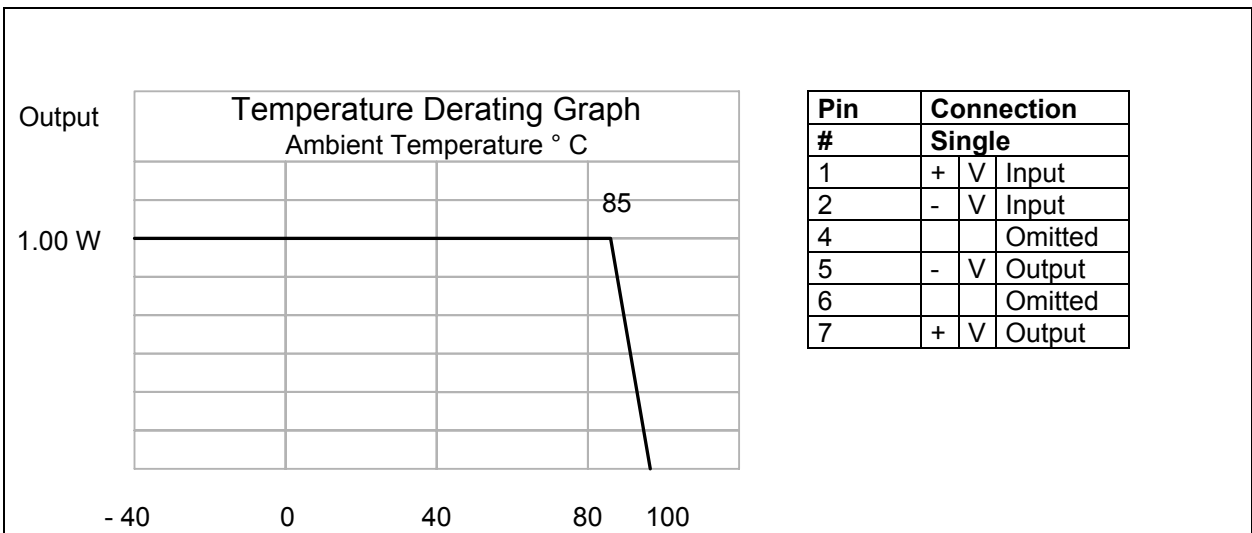
Examples for Partnumbers

| PART NO. | INPUT VOLTAGE (VDC) | INPUT CURRENT NO LOAD | INPUT CURRENT FULL LOAD | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (max. mA) | EFFICIENCY FULL LOAD (% TYP.) |
|------------|---------------------|-----------------------|-------------------------|----------------------|--------------------------|-------------------------------|
| P6LU-0505E | 5 | 16 | 277 | 5 | 200 | 72 |
| P6LU-0512E | 5 | 18 | 254 | 12 | 84 | 79 |
| P6LU-0518E | 5 | 25 | 257 | 18 | 55 | 78 |
| P6LU-1212E | 12 | 10 | 104 | 12 | 84 | 80 |
| P6LU-2405E | 24 | 6 | 55 | 5 | 200 | 76 |
| P6LU-2412E | 24 | 7 | 54 | 12 | 84 | 77 |
| P6LU-2415E | 24 | 8 | 55 | 15 | 67 | 76 |

Dimensions



Derating Graph and Pinning



Specification can be changed without notice.

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