

M1 SERIES P6CU-XXXXZ 1KV ISOLATED 1W UNREGULATED DUAL 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 1000 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

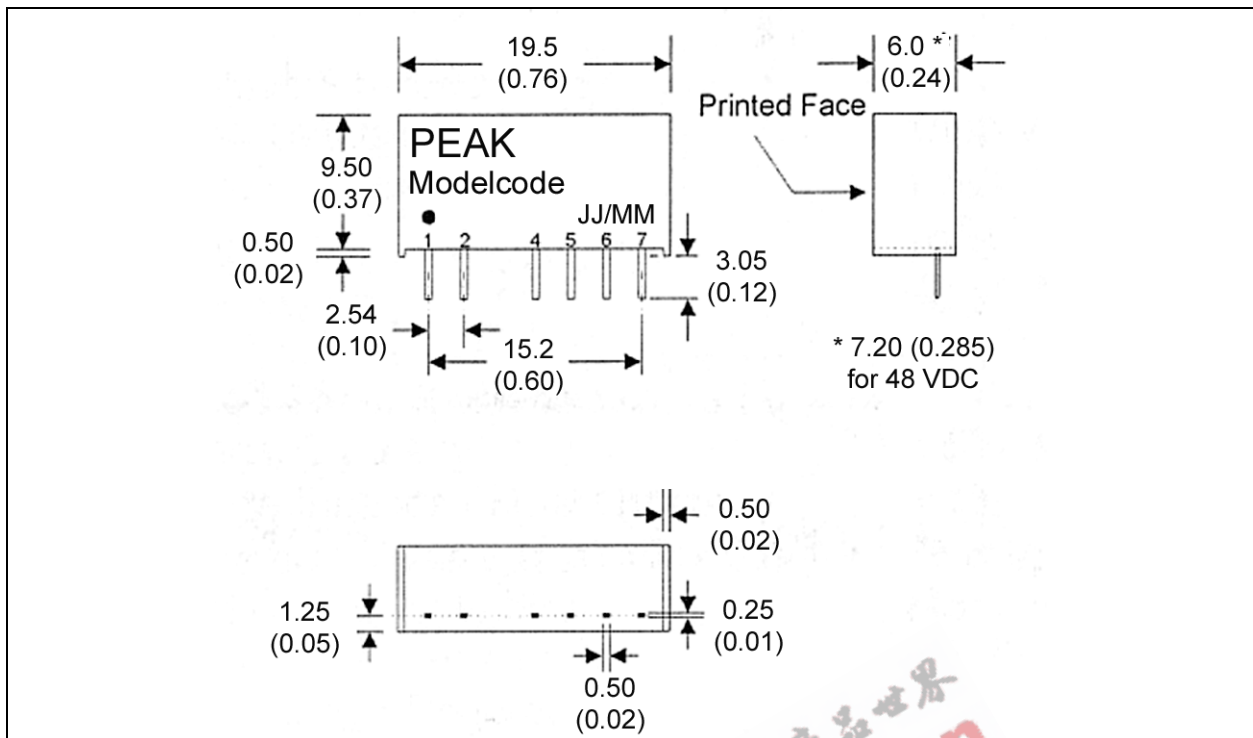
Physical Characteristics

 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

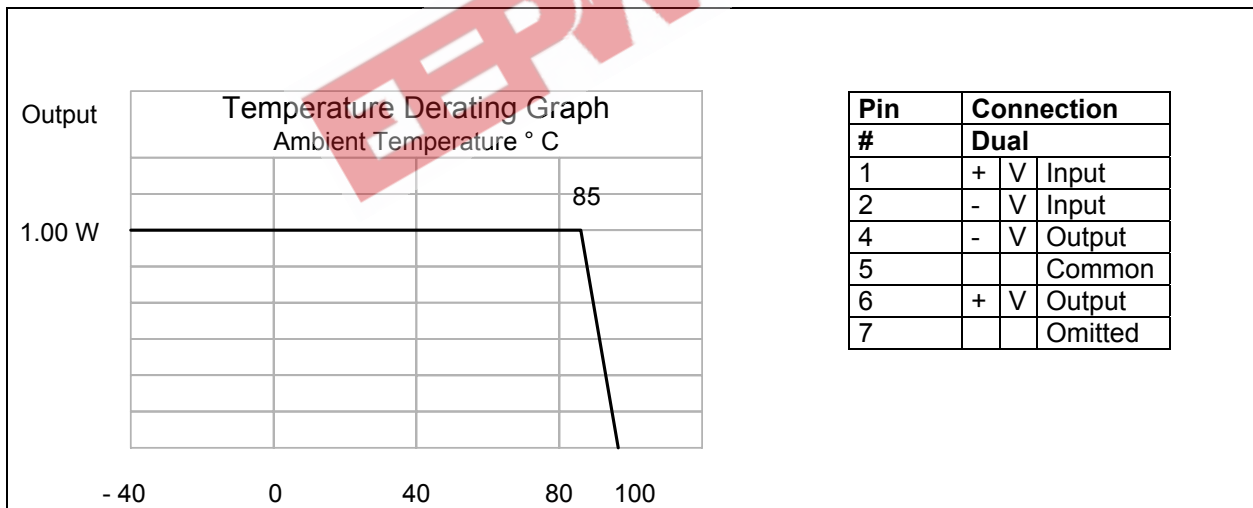
Examples of Partnumbers

| PART NO. | INPUT VOLTAGE (VDC) | INPUT CURRENT NO LOAD | INPUT CURRENT FULL LOAD | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (max. mA) | EFFICIENCY FULL LOAD (% TYP.) |
|-------------|---------------------|-----------------------|-------------------------|----------------------|--------------------------|-------------------------------|
| P6CU-0505Z | 5 | 16 | 281 | +/- 5 | +/- 100 | 71 |
| P6CU-0512Z | 5 | 18 | 253 | +/- 12 | +/- 42 | 79 |
| P6CU-0515Z | 5 | 20 | 250 | +/- 15 | +/- 34 | 80 |
| P6CU-1205Z | 12 | 11 | 119 | +/- 5 | +/- 100 | 70 |
| P6CU-1212Z | 12 | 10 | 104 | +/- 12 | +/- 42 | 80 |
| P6CU-243R3Z | 24 | 5 | 56 | +/- 3,3 | +/- 150 | 74 |
| P6CU-2405Z | 24 | 6 | 55 | +/- 5 | +/- 100 | 76 |
| P6CU-2412Z | 24 | 8 | 55 | +/- 12 | +/- 42 | 76 |

Dimensions



Derating Graph and Pinning



Specification can be changed without notice.

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