

M3 SERIES

P10CU-XXXXE 1KV ISOLATED 2W UNREGULATED SINGLE OUTPUT SIP7

Available Inputs:

5, 12, 24 and 48 VDC

Available Outputs:

5, 7.2, 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 +/- 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 85 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

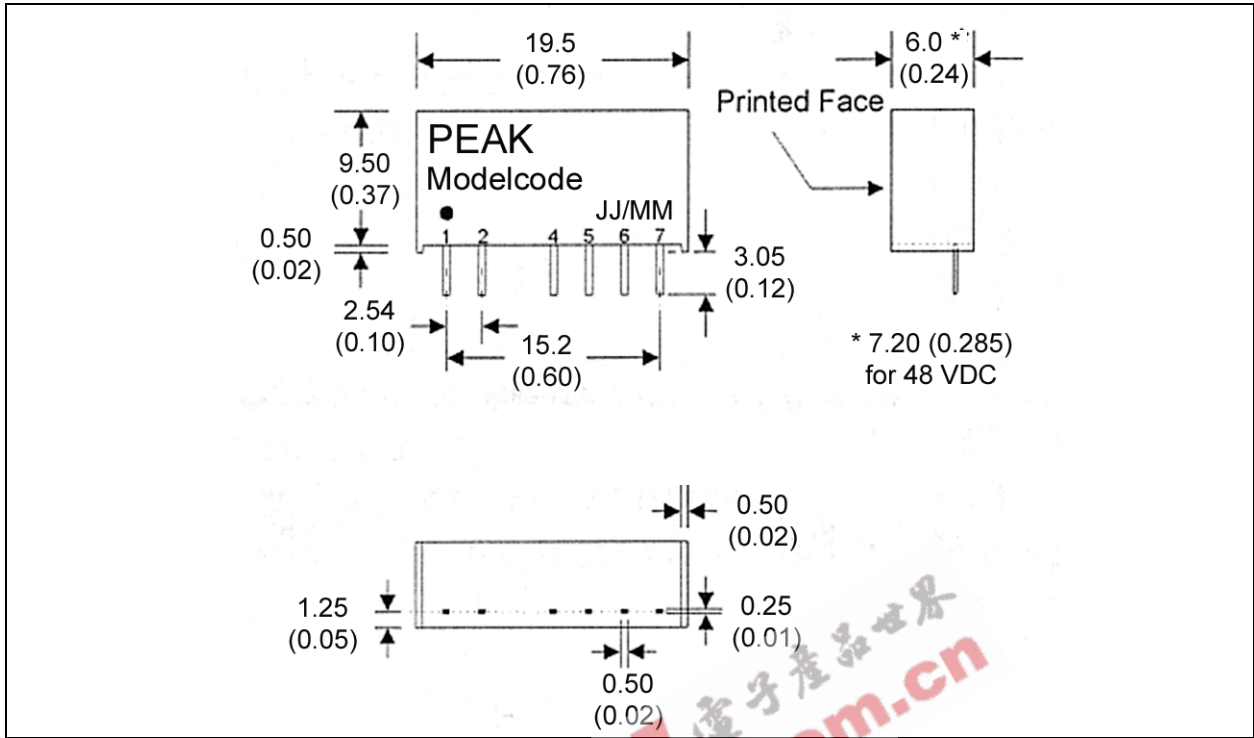
Weight 2,5 g 3,5 g for 48 VDC

Case material Non conductive black plastic

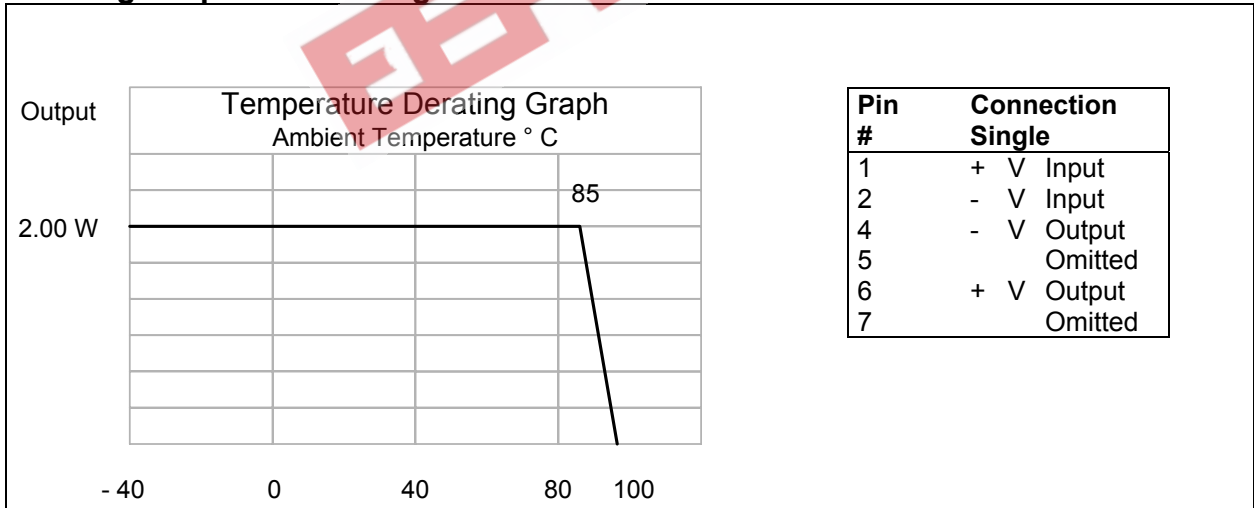
Examples of Partnumbers/Modelcode

| PART NO. | INPUT VOLTAGE (VDC) | INPUT CURRENT NO LOAD | INPUT CURRENT FULL LOAD | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (max. mA) | EFFICIENCY FULL LOAD (% TYP.) |
|-------------|---------------------|-----------------------|-------------------------|----------------------|--------------------------|-------------------------------|
| P10CU-0505E | 5 | 28 | 555 | 5 | 400 | 72 |
| P10CU-0512E | 5 | 28 | 500 | 12 | 167 | 80 |
| P10CU-1205E | 12 | 22 | 228 | 5 | 400 | 73 |
| P10CU-1212E | 12 | 20 | 208 | 12 | 167 | 80 |
| P10CU-2405E | 24 | 10 | 113 | 5 | 400 | 74 |
| P10CU-2412E | 24 | 9 | 101 | 12 | 167 | 82 |

Dimensions



Derating Graph and Pinning



Specification can be changed without notice.

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