

M3 SERIES
P10MU-XXXXE 3KV ISOLATED 2W UNREGULATED SINGLE OUTPUT DIP14
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 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 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

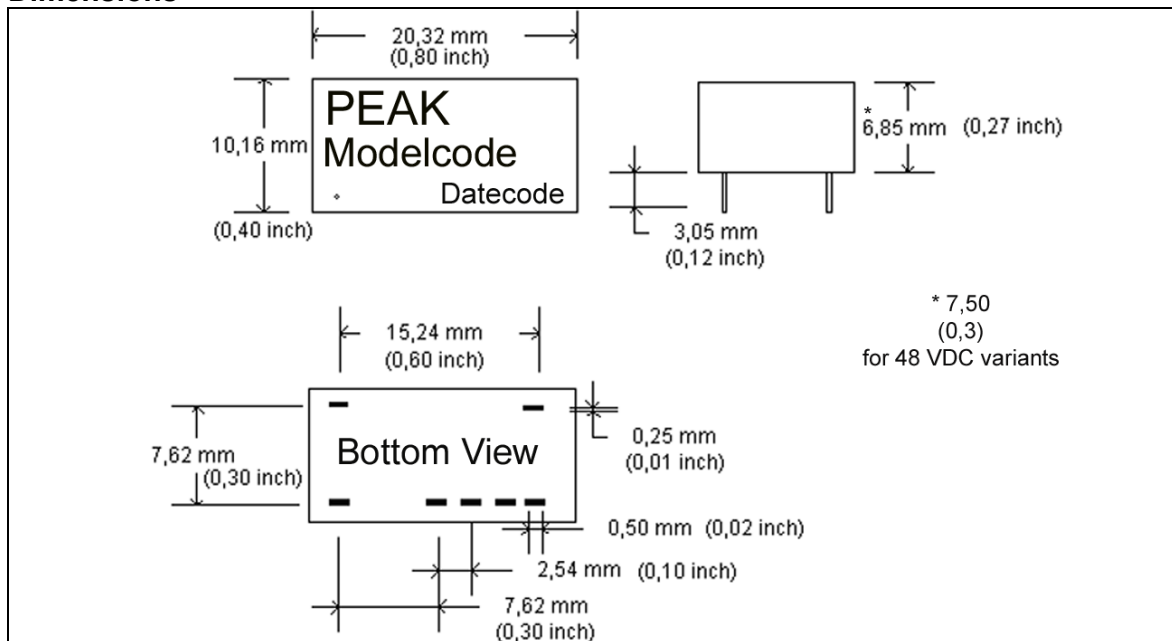
Physical Characteristics

 Dimensions DIP 20.32 x 10.16 x 6.85 mm
 0.80 x 0.40 x 0.27 inches
 Weight 2,5 g 3,5 g for 48 VDC
 Case material Non conductive black plastic

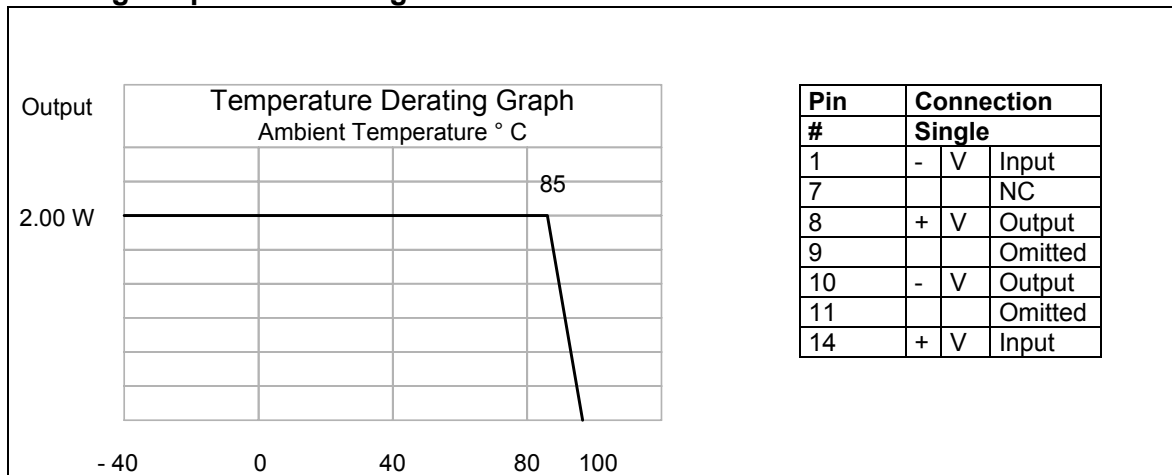
Examples of Partnumbers/Modelcode

| PART NO. | INPUT VOLTAGE (VDC) | INPUT CURRENT NO LOAD | INPUT CURRENT FULL LOAD | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (max. mA) | EFFICIENCY FULL LOAD (% TYP.) |
|-------------|---------------------|-----------------------|-------------------------|----------------------|--------------------------|-------------------------------|
| P10MU-0505E | 5 | 28 | 555 | 5 | 400 | 72 |
| P10MU-0512E | 5 | 28 | 500 | 12 | 167 | 80 |
| P10MU-1205E | 12 | 22 | 228 | 5 | 400 | 73 |
| P10MU-1212E | 12 | 20 | 208 | 12 | 167 | 80 |
| P10MU-2405E | 24 | 10 | 113 | 5 | 400 | 74 |
| P10MU-2412E | 24 | 9 | 101 | 12 | 167 | 82 |

Dimensions



Derating Graph and Pinning



Specification can be changed without notice.

Copyright PEAK electronics GmbH

REV:2 / 09.2001