

**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  $10^9$  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  $V_{in}$   
 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

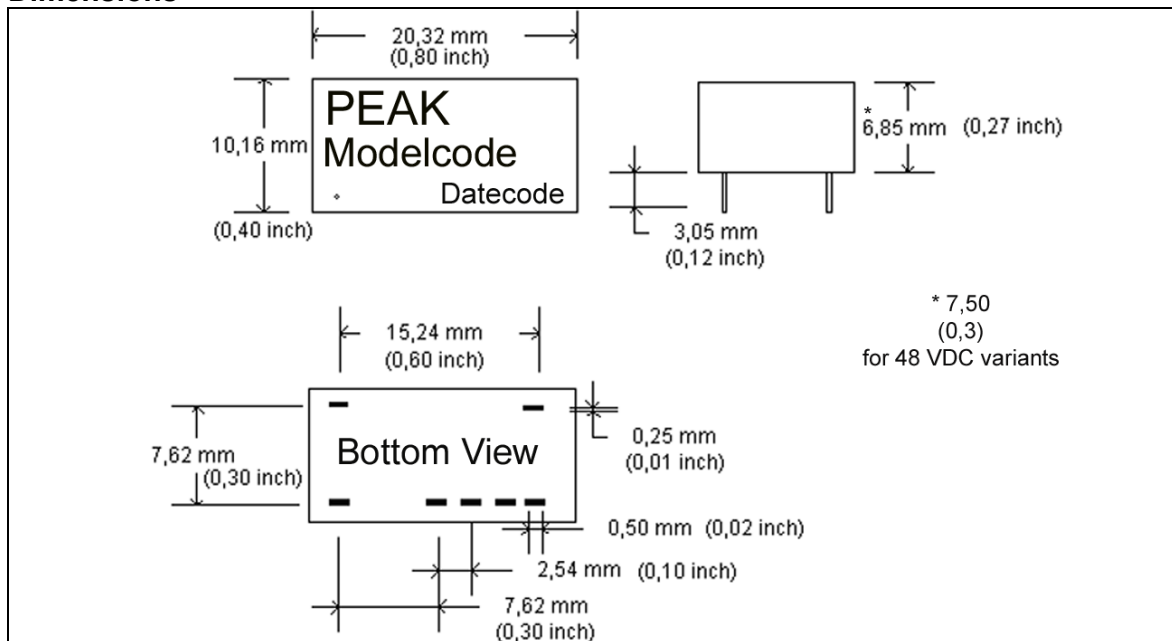
**Physical Characteristics**

 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

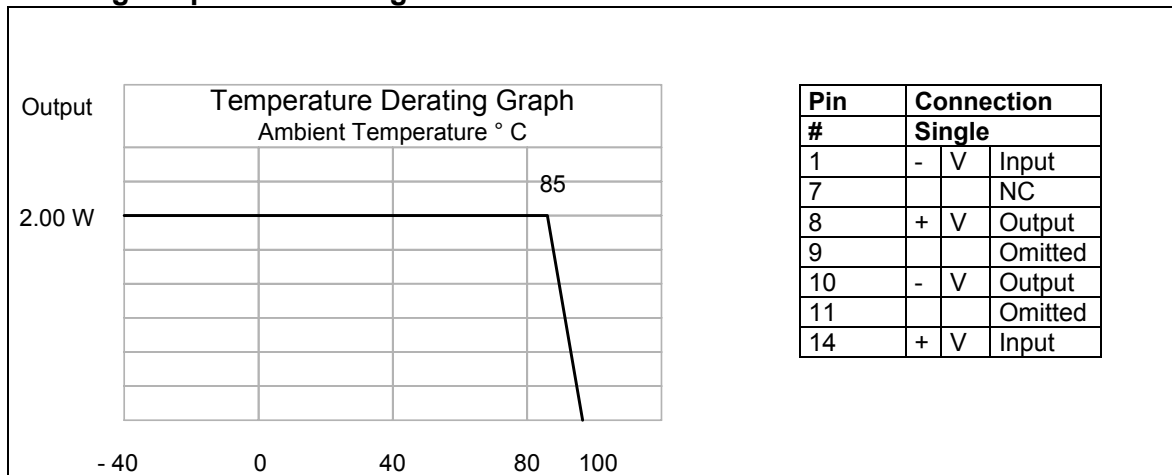
**Examples of Partnumbers/Modelcode**

| 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.

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REV:2 / 09.2001