

**M3 SERIES**
**P10DU-XXXXZ 1KV ISOLATED 2W UNREGULATED DUAL 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 1000 VDC  
 Leakage current 1 mA  
 Resistance 10<sup>9</sup> 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

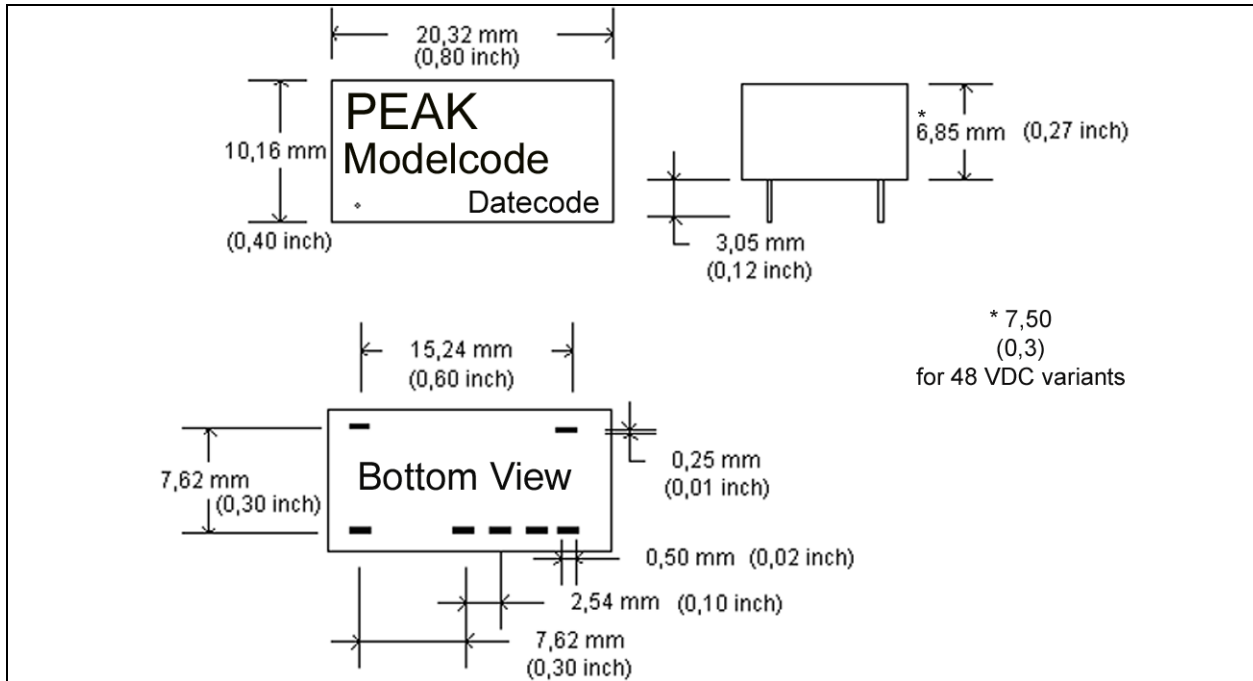
**Physical Characteristics**

 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

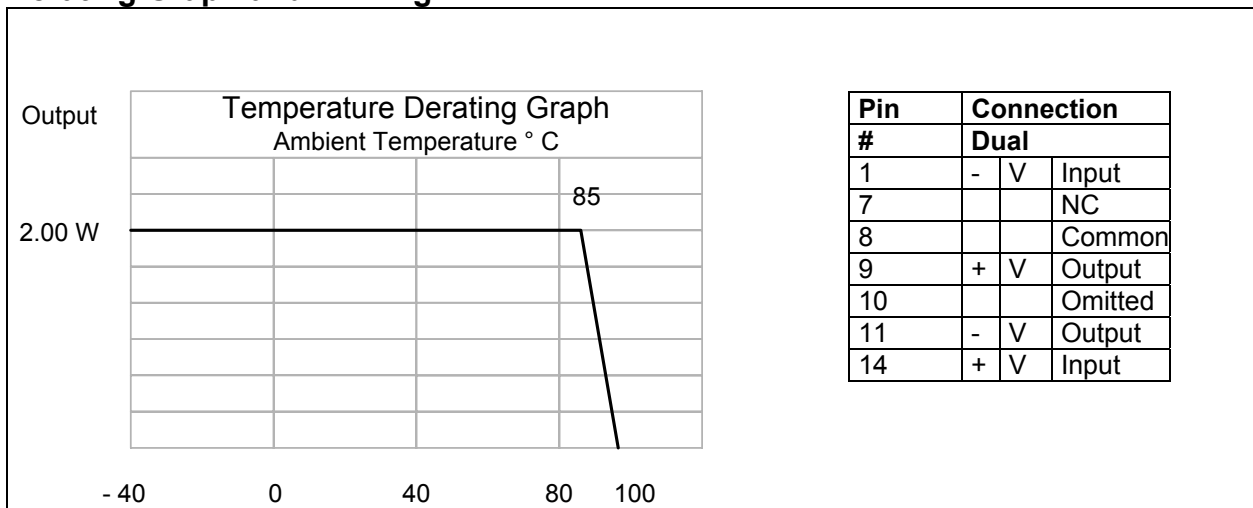
**Examples of Partnumbers/Modelcode**

PART NO.	INPUT VOLTAGE (VDC)	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYP.)
P10DU-0505Z	5	28	555	+/- 5	+/- 200	72
P10DU-0512Z	5	26	500	+/- 12	+/- 84	80
P10DU-0515Z	5	25	494	+/- 15	+/- 67	81
P10DU-1205Z	12	22	225	+/- 5	+/- 200	74
P10DU-1212Z	12	20	208	+/- 12	+/- 84	80
P10DU-1215Z	12	20	208	+/- 15	+/- 67	80
P10DU-2405Z	24	11	111	+/- 5	+/- 200	75
P10DU-247R2Z	24	10	107	+/- 7,2	+/- 139	78
P10DU-2412Z	24	8	102103	+/- 12	+/- 84	81
P10DU-2415Z	24	8	102	+/-15	+/- 67	82

**Dimensions**



**Derating Graph and Pinning**



Pin #	Connection		
	Dual		
1	-	V	Input
7			NC
8			Common
9	+	V	Output
10			Omitted
11	-	V	Output
14	+	V	Input

Specification can be changed without notice.

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