

## M1 SERIES P6DU-XXXXZ 1KV ISOLATED 1W UNREGULATED DUAL OUTPUT DIP14

### 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 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 67 % to 80 %  
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

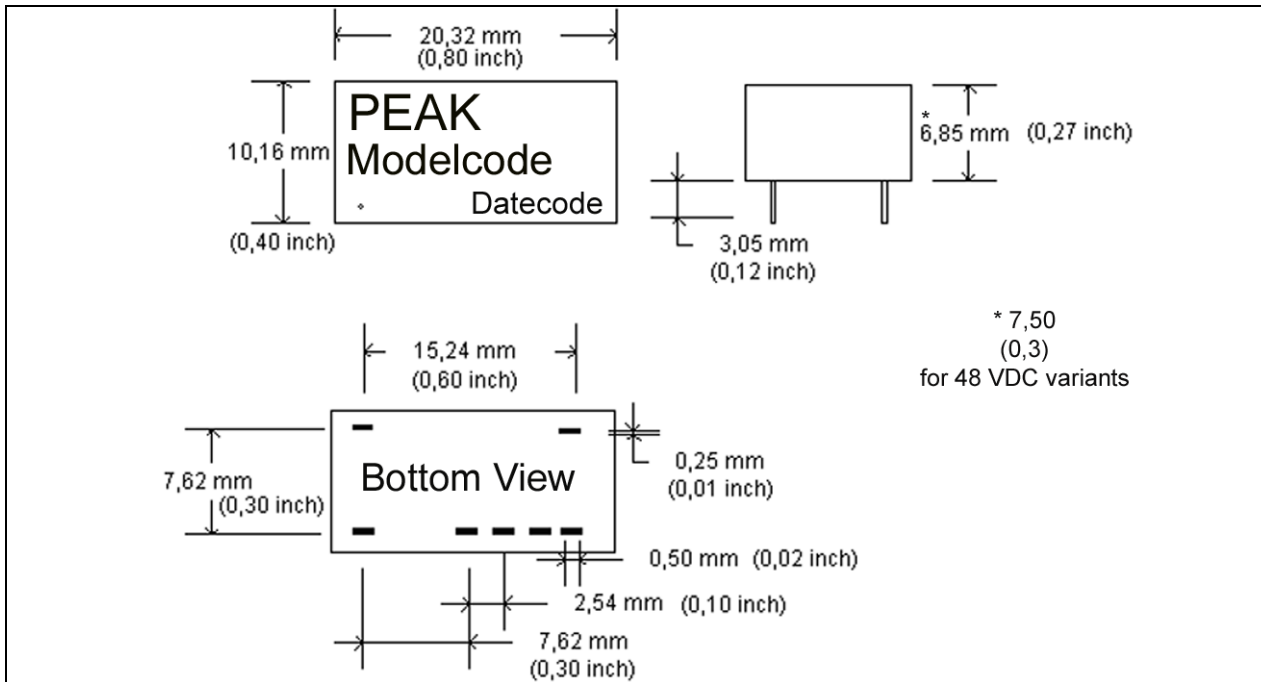
#### Physical Characteristics

Dimensions DIP 20,32 x 10,16 x 6,85 mm  
0,80 x 0,40 x 0,77 inches  
Weight 2 g  
Case material Non conductive black plastic

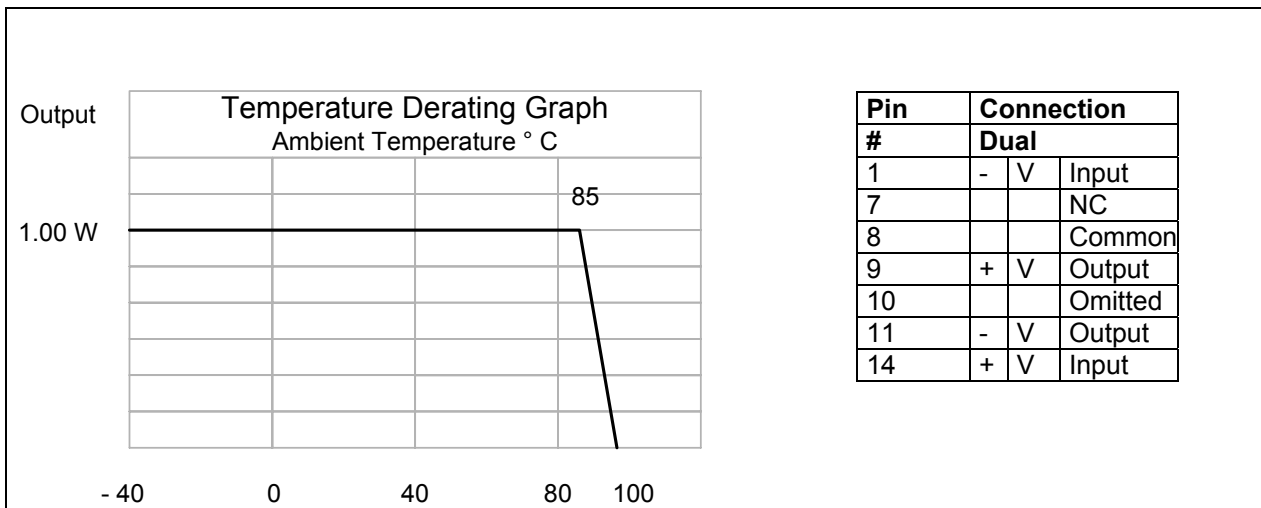
### Examples of Partnumbers

PART NO.	INPUT VOLTAGE (VDC)	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYP.)
P6DU-0505Z	5	16	281	+/- 5	+/- 100	71
P6DU-0512Z	5	18	253	+/- 12	+/- 42	79
P6DU-1205Z	12	11	119	+/- 5	+/- 100	70
P6DU-1212Z	12	10	104	+/- 12	+/- 42	80
P6DU-243R3Z	24	5	56	+/- 3,3	+/- 150	74
P6DU-2405Z	24	6	55	+/- 5	+/- 100	76
P6DU-2412Z	24	8	55	+/- 12	+/- 42	76
P6DU-4805Z	48	5	31	+/- 5	+/- 100	67
P6DU-4812Z	48	6	27	+/- 12	+/- 42	77

**Dimensions**



**Derating Graph and Pinning**



Specification can be changed without notice.

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