

## M1 SERIES P6CU-XXXXZ 1KV ISOLATED 1W UNREGULATED DUAL OUTPUT SIP7

### 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  $10^9$  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 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

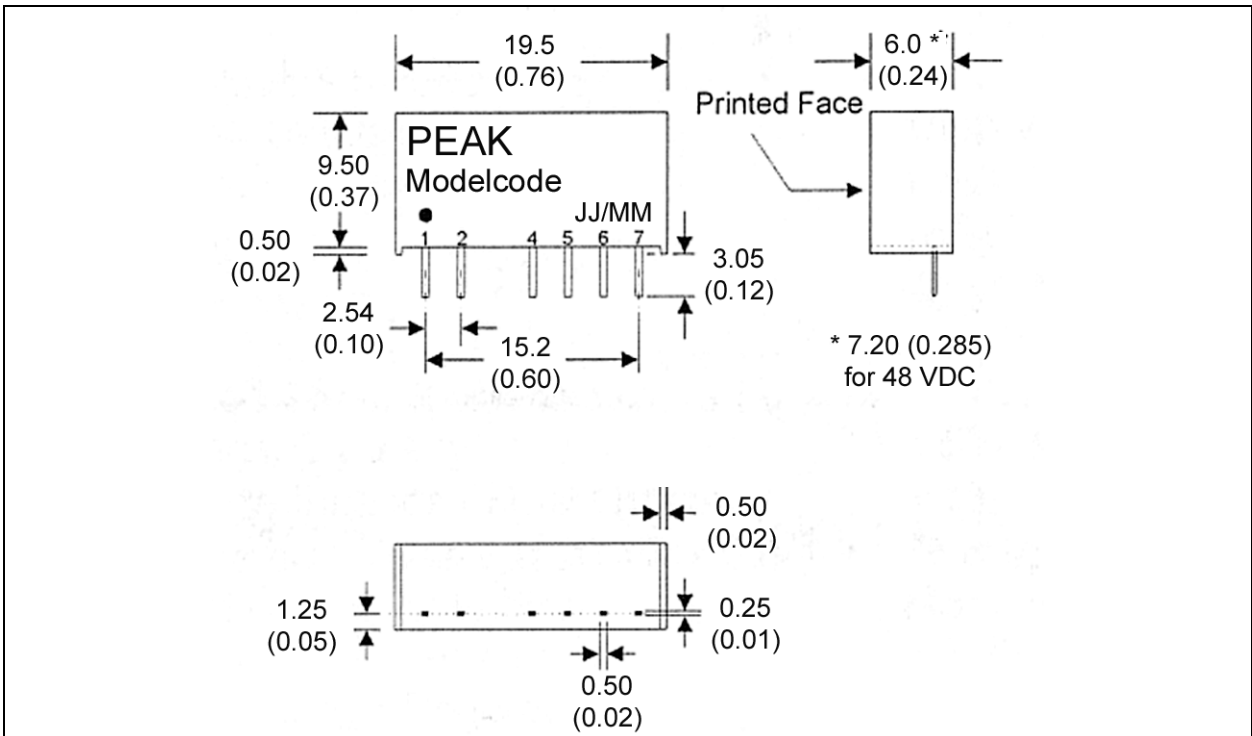
#### Physical Characteristics

Dimensions SIP 19,50 x 6,00 x 9,50 mm  
0,76 x 0,24 x 0,37 inches  
Weight 2 g, 3 g for the 48 VDC variants  
Case material Non conductive black plastic

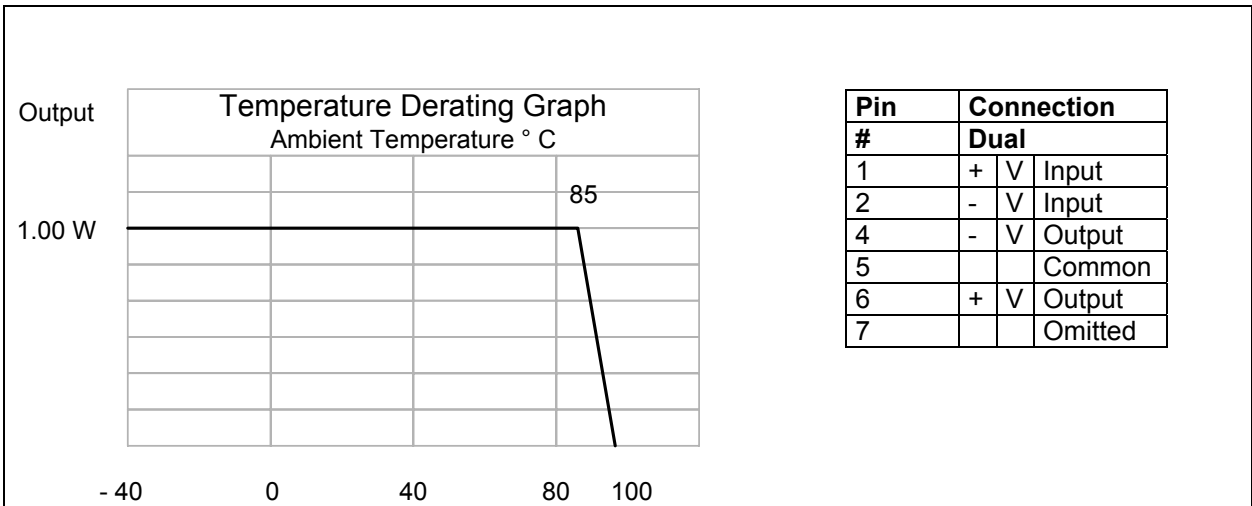
### Examples of Partnumbers

PART NO.	INPUT VOLTAGE (VDC)	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYP.)
P6CU-0505Z	5	16	281	+/- 5	+/- 100	71
P6CU-0512Z	5	18	253	+/- 12	+/- 42	79
P6CU-0515Z	5	20	250	+/- 15	+/- 34	80
P6CU-1205Z	12	11	119	+/- 5	+/- 100	70
P6CU-1212Z	12	10	104	+/- 12	+/- 42	80
P6CU-243R3Z	24	5	56	+/- 3,3	+/- 150	74
P6CU-2405Z	24	6	55	+/- 5	+/- 100	76
P6CU-2412Z	24	8	55	+/- 12	+/- 42	76

Dimensions



Derating Graph and Pinning



Specification can be changed without notice.

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