

**MD SERIES PEN4-XXXXZ4:1 1.5 KV ISOLATED 3 - 4 W REGULATED DUAL OUTPUT DIP24**

Other specifications please enquire.

**Electrical Specifications**

(Typical at + 25° C, nominal input voltage, rated output current unless otherwise specified)

**Input Specifications**

Voltage range 9 - 36 VDC (24 VDC), 18 – 72 VDC (48 VDC)  
Filter Pi Network

**Isolation Specifications**

Rated voltage 1500 Vdc  
Resistance  $10^9$  Ohm  
Capacitance 390 pF typ.

**Output Specifications**

Voltage accuracy +/- 1 % typ. +/-2% max.  
Ripple and noise (at 20 MHz BW) 60 mV p-p max.  
Short circuit protection Continuous , restart automatic  
Line voltage regulation +/- 0,5 % max.  
Load voltage regulation +/- 0,5 % max.  
Temperature coefficient +/- 0,02 % / °C

**General Specifications**

Efficiency 78 % to 80 %  
Switching frequency 260 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

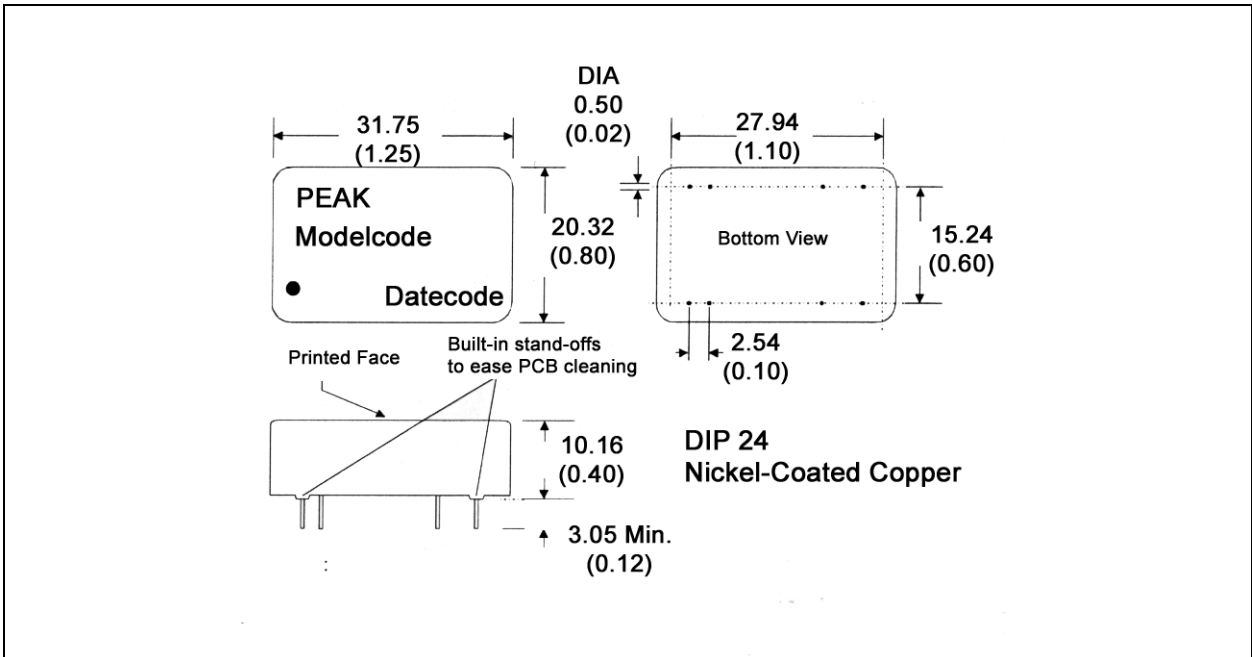
**Physical Characteristics**

Dimensions 31,75 x 20,32 x 10,16 mm  
1,25 x 0,80 x 0,40 inches  
Weight 19,0 g  
Case material Nickel Coated Copper

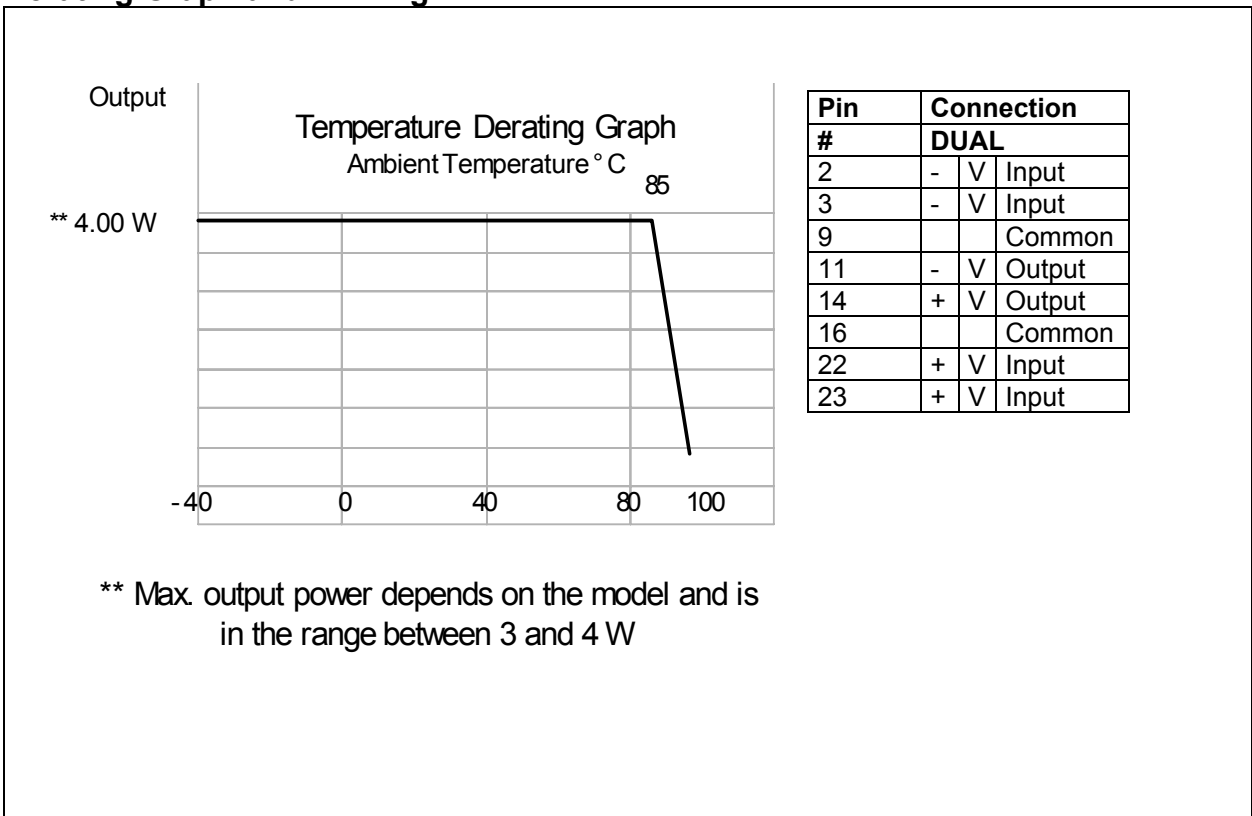
**Examples of Partnumbers/Modelcode**

PART NO.	INPUT VOLTAGE (VDC) Nominal	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYP.)
PEN4-2405Z4:1	9 - 36	20	214	+/- 5	+/- 400	78
PEN4-2412Z4:1	9 - 36	20	207	+/- 12	+/- 166	80
PEN4-2415Z4:1	9 - 36	23	207	+/- 15	+/- 133	80
PEN4-4805Z4:1	18 - 72	10	107	+/- 5	+/- 400	78
PEN4-4812Z4:1	18 - 72	12	104	+/- 12	+/- 166	80
PEN4-4815Z4:1	18 - 72	12	104	+/- 15	+/- 133	80

**Dimensions**



**Derating Graph and Pinning**



Specification can be changed without notice.

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