

**MQ SERIES P22TG-XXXE4:1 1.5 KV ISOLATED 5 W REGULATED SINGLE OUTPUT DIP24**

**Available Inputs:**

**24 and 48 VDC Wide Input 4:1**

**Available Outputs:**

**3.3, 5, 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 9 - 36 VDC (24 VDC), 18 - 72 VDC (48 VDC)  
 Filter Pi Network

**Isolation Specifications**

Rated voltage 1500 Vdc  
 Leakage current 1 mA  
 Resistance  $10^9$  Ohm  
 Capacitance 80 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 70 % to 85 %  
 Switching frequency 250 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

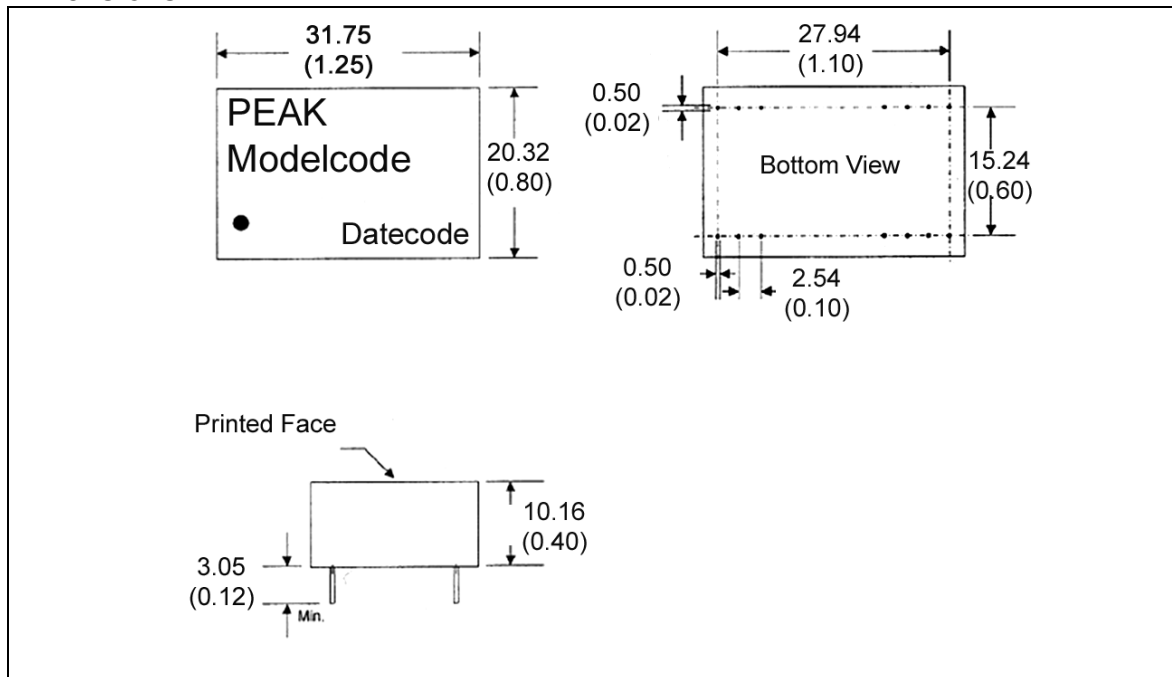
**Physical Characteristics**

Dimensions 31,75 x 20,32 x 10,16 mm  
 1,25 x 0,80 x 0,40 inches  
 Weight 21,5 g  
 Case material Non conductive black plastic

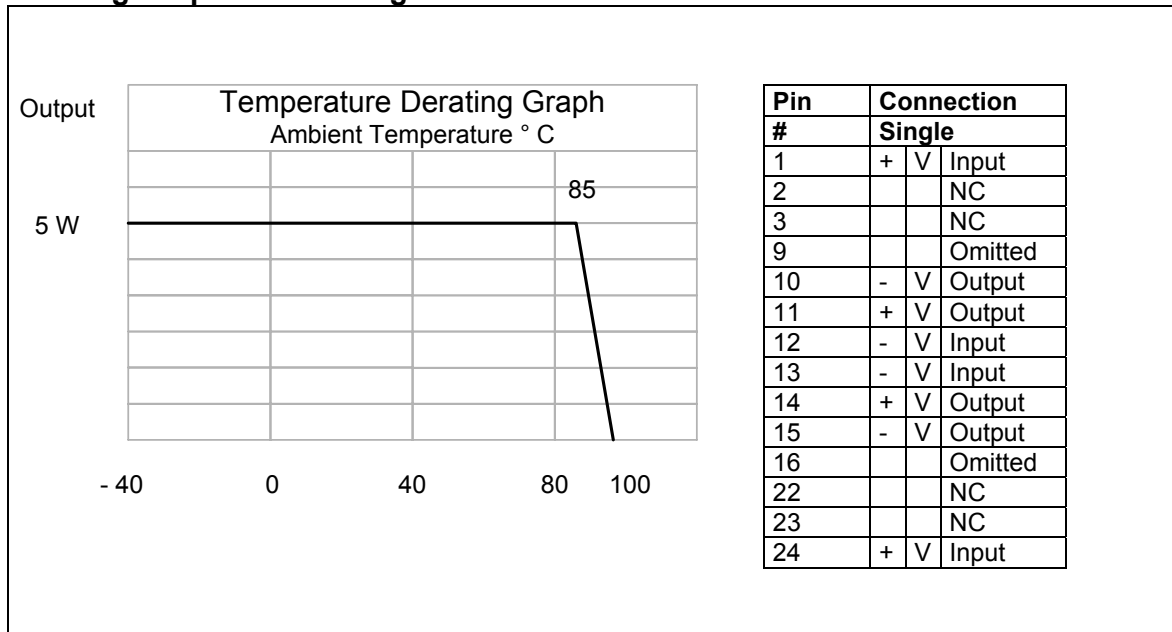
**Examples of Partnumbers/Modelcode**

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.)
P22TG-2405E4:1	9-36	14.5	274	5	1000	76
P22TG-2415E4:1	9-36	14.5	260	15	333	80
P22TG-4805E4:1	18-72	15.8	139	5	1000	75
P22TG-4812E4:1	18-72	15.8	132	12	417	79
P22TG-4815E4:1	18-72	15.8	130	15	333	80

**Dimensions**



**Derating Graph and Pinning**



Specification can be changed without notice.

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