

**MQ SERIES P22TG-XXXXZ4:1H35 3.5 KV ISOLATED 5 W REGULATED DUAL 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 3500 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

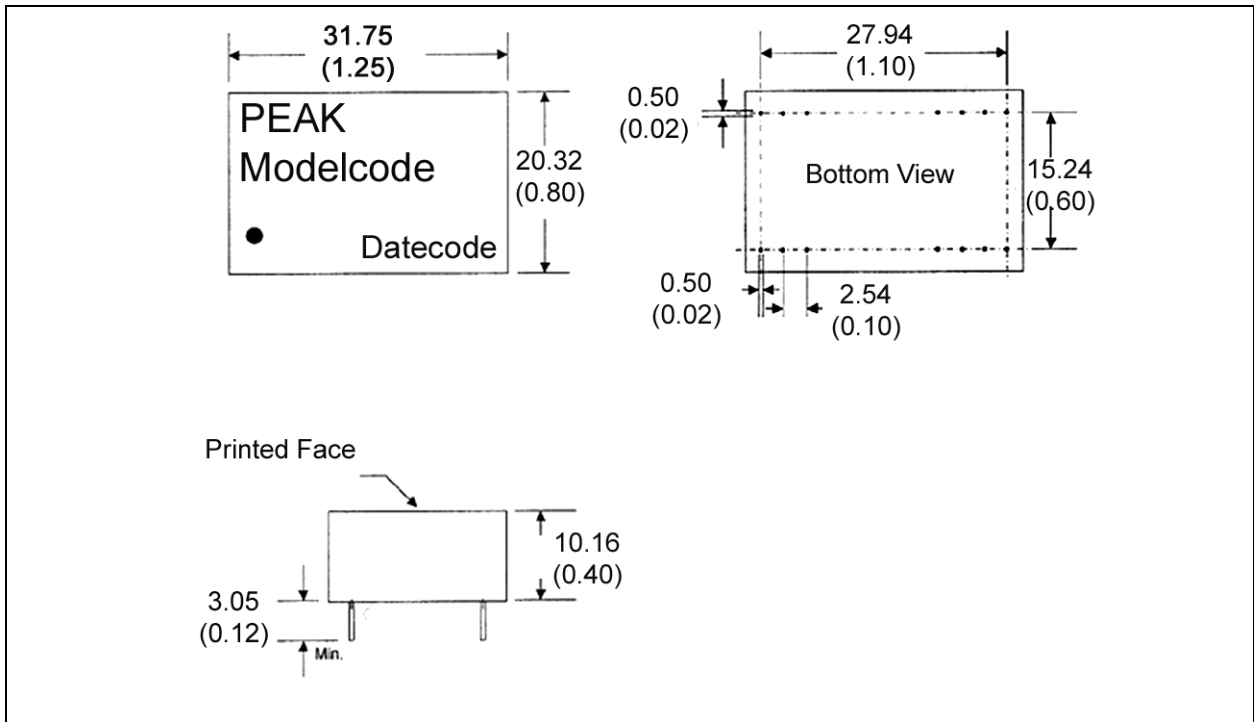
Weight 21,5 g

Case material Non conductive black plastic

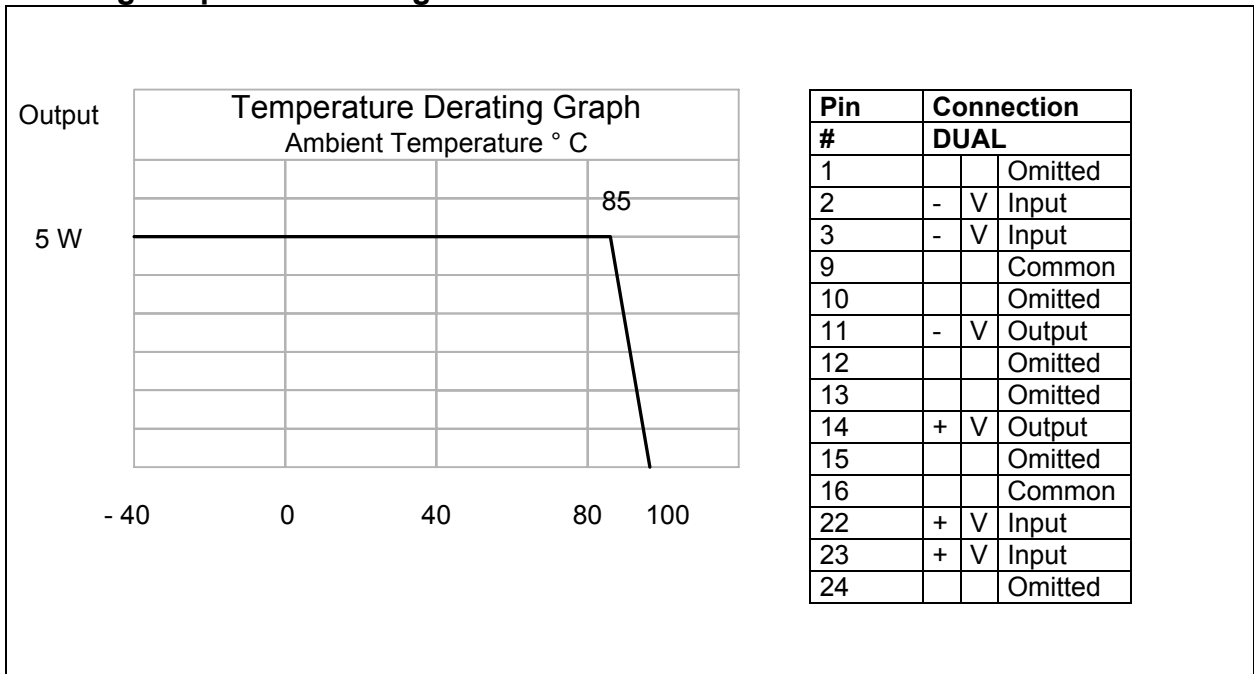
**Examples of Partnumbers/Modelcode**

| PART NO.          | INPUT VOLTAGE (VDC)<br>Nominal | INPUT CURRENT NO LOAD | INPUT CURRENT FULL LOAD | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (max. mA) | EFFICIENCY FULL LOAD (% TYP.) |
|-------------------|--------------------------------|-----------------------|-------------------------|----------------------|--------------------------|-------------------------------|
| P22TG-2405Z4:1H35 | 9-36                           | 19                    | 281                     | +/- 5                | +/- 500                  | 74                            |
| P22TG-2412Z4:1H35 | 9-36                           | 19                    | 267                     | +/- 12               | +/- 208                  | 76                            |
| P22TG-4805Z4:1H35 | 18-72                          | 19                    | 137                     | +/- 5                | +/- 500                  | 76                            |
| P22TG-4812Z4:1H35 | 18-72                          | 19                    | 135                     | +/- 12               | +/- 208                  | 77                            |
| P22TG-4815Z4:1H35 | 18-72                          | 19                    | 132                     | +/- 15               | +/- 167                  | 79                            |

**Dimensions**



**Derating Graph and Pinning**



Specification can be changed without notice.

Copyright PEAK electronics GmbH