

**M6 SERIES P14TG-XXXXE2:1M 1.5 KV ISOLATED 3 W REGULATED SINGLE OUTPUT DIP24**
**Available Inputs:**
**12, 24 and 48 VDC Wide Input 2:1**
**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 - 18 VDC (12 VDC), 18 - 36 VDC (24 VDC)  
 36 - 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

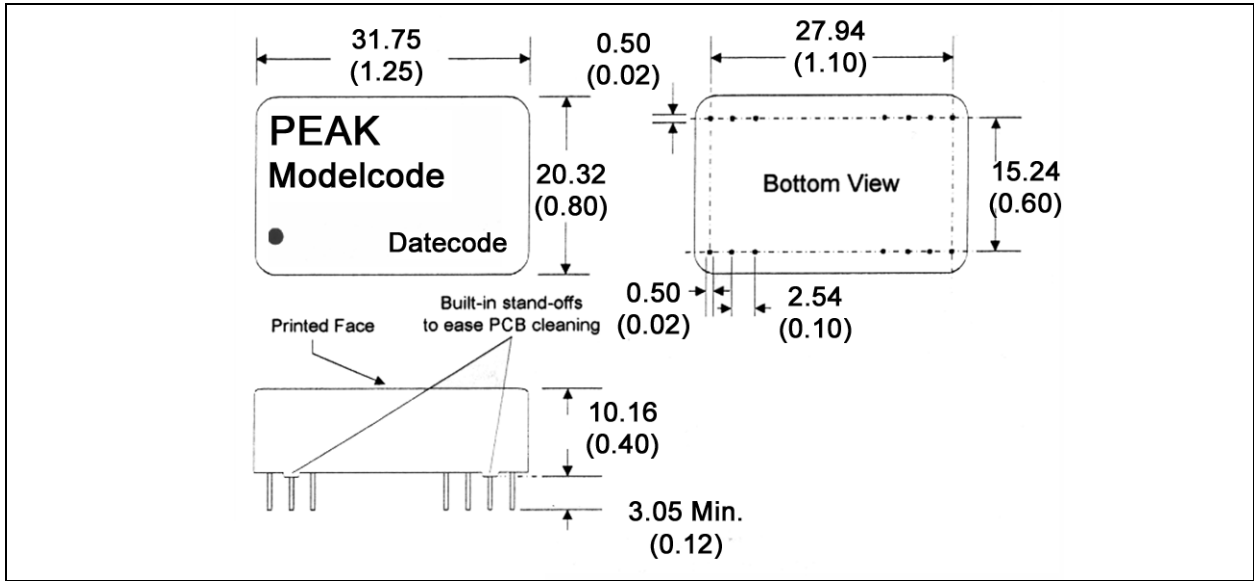
Weight 16,3 g

Case material Nickel Coated Copper

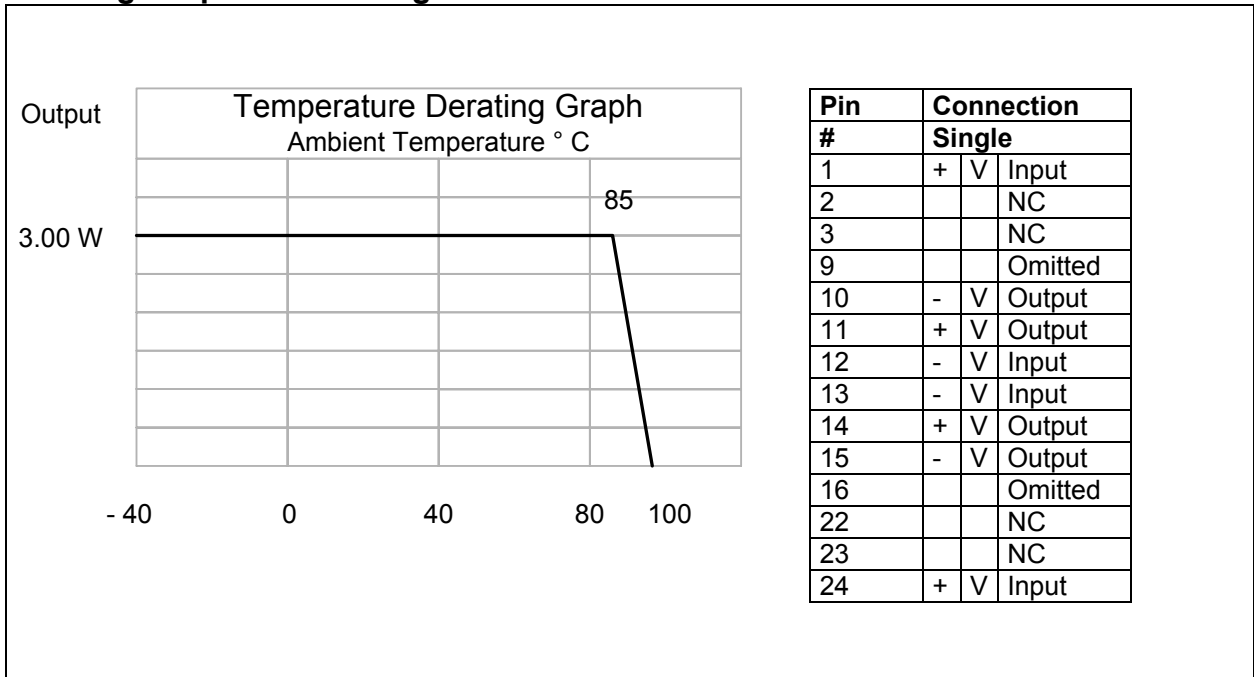
**Examples of Partnumbers/Modelcode**

| 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.) |
|-----------------|-----------------------------|-----------------------|-------------------------|----------------------|--------------------------|-------------------------------|
| P14TG-1205E2:1M | 9-18                        | 14                    | 338                     | 5                    | 600                      | 74                            |
| P14TG-1212E2:1M | 9-18                        | 14                    | 320                     | 12                   | 250                      | 78                            |
| P14TG-2405E2:1M | 18-36                       | 14                    | 166                     | 5                    | 600                      | 75                            |
| P14TG-2412E2:1M | 18-36                       | 14                    | 160                     | 12                   | 250                      | 78                            |
| P14TG-2415E2:1M | 18-36                       | 14                    | 158                     | 15                   | 200                      | 79                            |
| P14TG-4805E2:1M | 36-72                       | 12                    | 83                      | 5                    | 600                      | 75                            |
| P14TG-4812E2:1M | 36-72                       | 12                    | 79                      | 12                   | 250                      | 79                            |

**Dimensions**



**Derating Graph and Pinning**



Specification can be changed without notice.

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