

M6 SERIES
P14TG-XXXXE2:1H35M 3.5 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 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

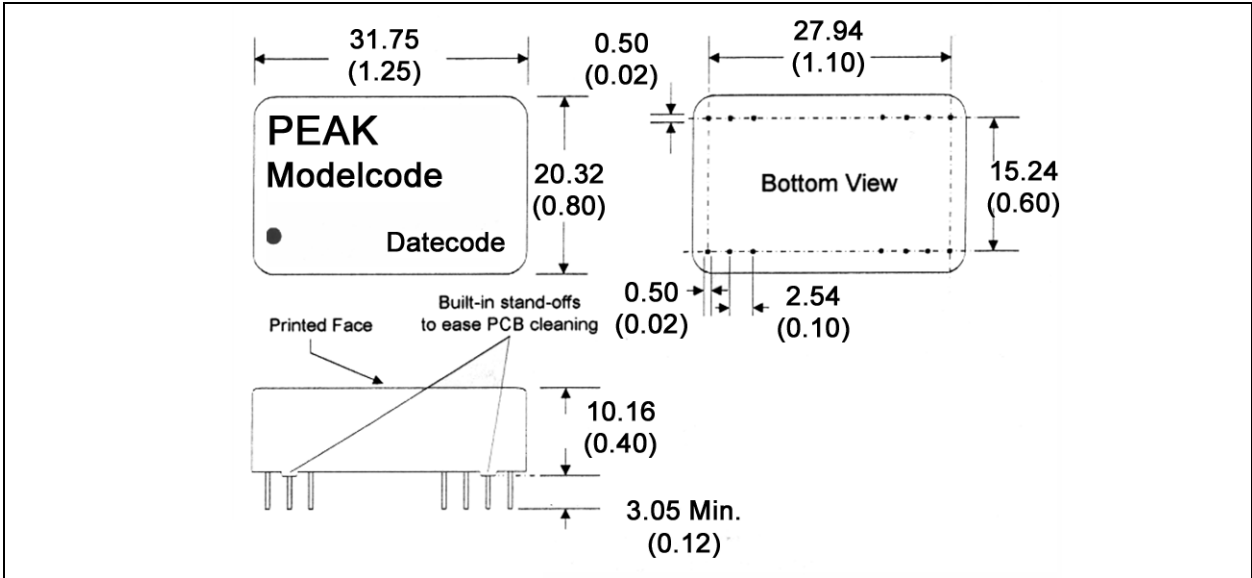
Weight 16,3 g

Case material Nickel Coated Copper

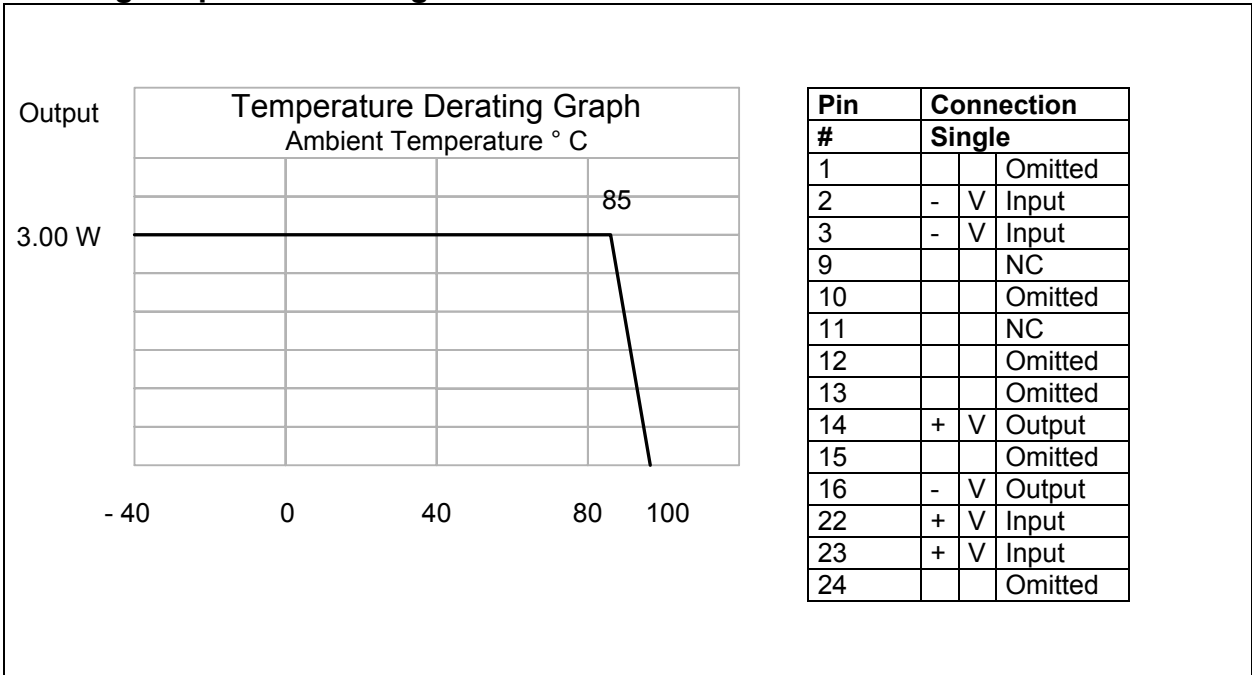
Examples of Partnumbers/Modelcode

| 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-1205E2:1H35M | 9-18 | 14 | 338 | 5 | 600 | 74 |
| P14TG-1212E2:1H35M | 9-18 | 14 | 320 | 12 | 250 | 78 |
| P14TG-2405E2:1H35M | 18-36 | 14 | 166 | 5 | 600 | 75 |
| P14TG-2412E2:1H35M | 18-36 | 14 | 160 | 12 | 250 | 78 |
| P14TG-2415E2:1H35M | 18-36 | 14 | 158 | 15 | 200 | 79 |
| P14TG-4805E2:1H35M | 36-72 | 12 | 83 | 5 | 600 | 75 |
| P14TG-4812E2:1H35M | 36-72 | 12 | 79 | 12 | 250 | 79 |

Dimensions



Derating Graph and Pinning



Specification can be changed without notice.

Copyright PEAK electronics GmbH