

M3 SERIES
P10DU-XXXXE 1KV ISOLATED 2W UNREGULATED SINGLE OUTPUT DIP14
Available Inputs:
5, 12, 24 and 48 VDC
Available Outputs:
5, 7.2, 12 and 15 VDC

Other specifications please enquire

Electrical Specifications

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

Input Specifications

Voltage range +/- 10 %

Filter Capacitors

Isolation Specifications

Rated voltage 1000 VDC

Leakage current 1 mA

 Resistance 10⁹ Ohm

Capacitance 60 pF typ.

Output Specifications

Voltage accuracy +/- 5 %, max.

Ripple and noise (at 20 MHz BW) 75 mV p-p, max.

Short circuit protection Momentary

Line voltage regulation +/- 1,2 % / 1,0 % of Vin

Load voltage regulation +/- 8 %, load = 20 ~ 100 %

Temperature coefficient +/- 0,02 % / °C

General Specifications

Efficiency 70 % to 85 %

Switching frequency 85 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 DIP 20.32 x 10.16 x 6.85 mm

0.80 x 0.40 x 0.27 inches

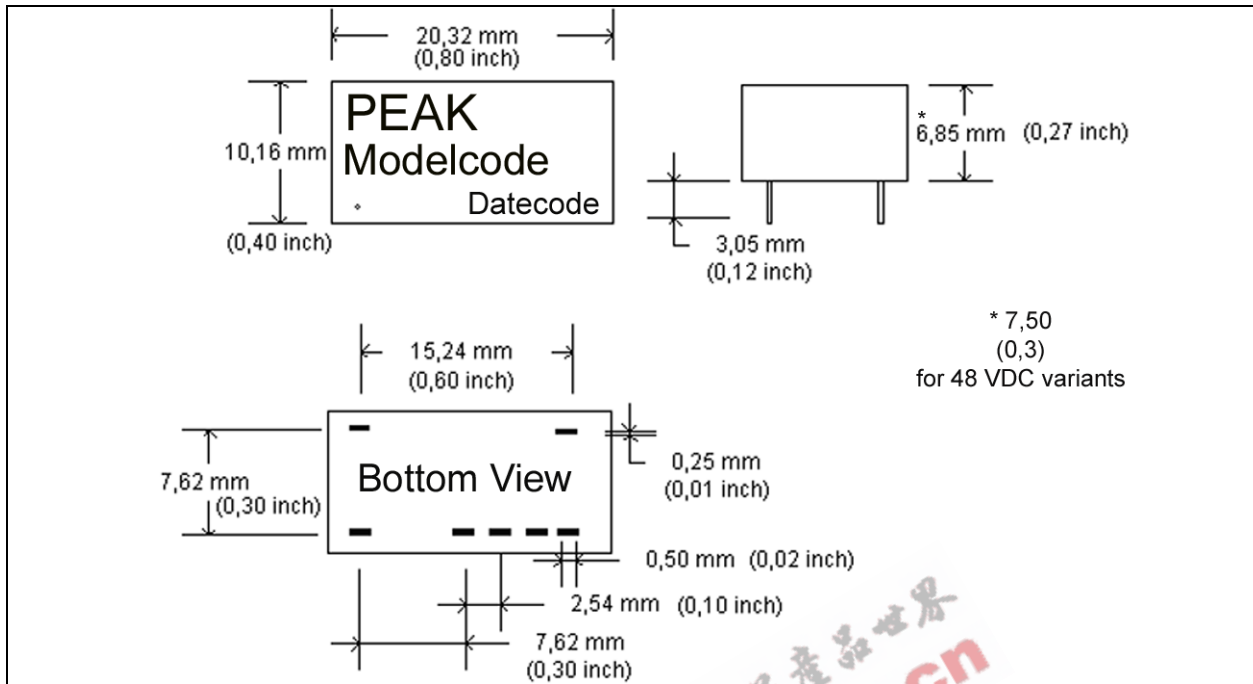
Weight 2,5 g 3,5 g for 48 VDC

Case material Non conductive black plastic

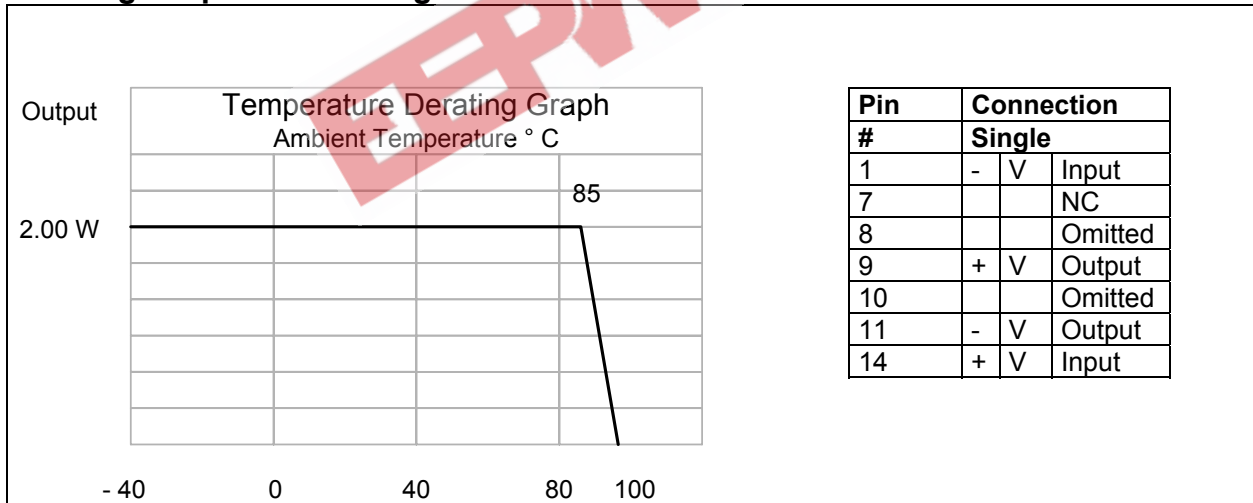
Examples of Partnumbers/Modelcode

PART NO.	INPUT VOLTAGE (VDC)	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYP.)
P10DU-0505E	5	28	555	5	400	72
P10DU-0512E	5	28	500	12	167	80
P10DU-1205E	12	22	228	5	400	73
P10DU-1212E	12	20	208	12	167	80
P10DU-2405E	24	10	113	5	400	74
P10DU-2412E	24	9	101	12	167	82

Dimensions



Derating Graph and Pinning



Specification can be changed without notice.

Copyright PEAK electronics GmbH