

M3 SERIES

P10DU-XXXXZ 1KV ISOLATED 2W UNREGULATED DUAL 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

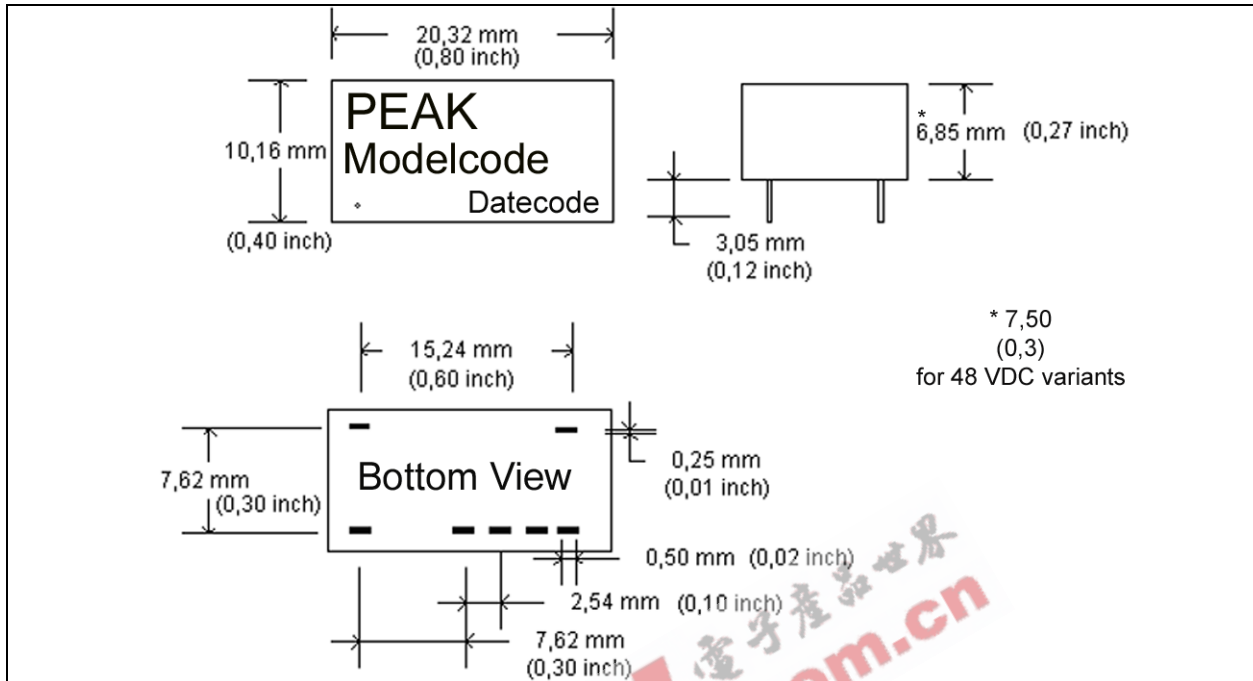
Physical Characteristics

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

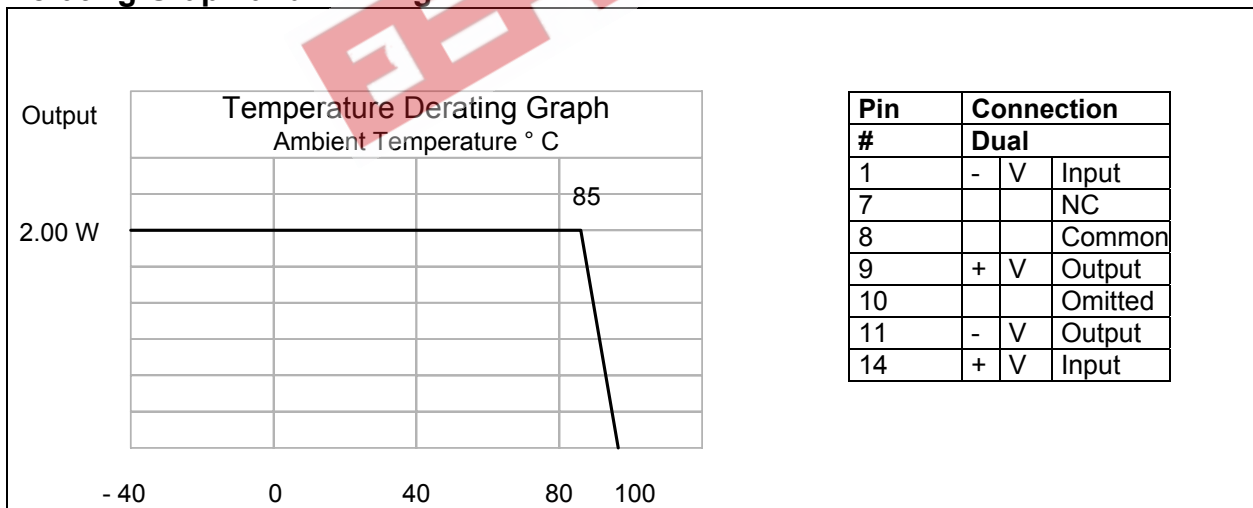
Examples of Partnumbers/Modelcode

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-0505Z	5	28	555	+/- 5	+/- 200	72
P10DU-0512Z	5	26	500	+/- 12	+/- 84	80
P10DU-0515Z	5	25	494	+/- 15	+/- 67	81
P10DU-1205Z	12	22	225	+/- 5	+/- 200	74
P10DU-1212Z	12	20	208	+/- 12	+/- 84	80
P10DU-1215Z	12	20	208	+/- 15	+/- 67	80
P10DU-2405Z	24	11	111	+/- 5	+/- 200	75
P10DU-247R2Z	24	10	107	+/- 7,2	+/- 139	78
P10DU-2412Z	24	8	102103	+/- 12	+/- 84	81
P10DU-2415Z	24	8	102	+/-15	+/- 67	82

Dimensions



Derating Graph and Pinning



Specification can be changed without notice.

Copyright PEAK electronics GmbH