

M5 SERIES

P14SG-XXXXZ 1 KV ISOLATED 3 W REGULATED DUAL OUTPUT DIP24

Available Inputs:

5, 12 and 24 VDC

Available Outputs:

(+/-) 3.6, 5, 7.2, 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

+/- 10 %

Filter

Pi Network

Isolation Specifications

Rated voltage

1000 Vdc

Leakage current

1 mA

Resistance

10⁹ Ohm

Capacitance

60 pF typ.

Output Specifications

Voltage accuracy

+/- 2 %, max.

Ripple and noise (at 20 MHz BW)

75 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

65 % to 85 %

Switching frequency

125 KHz, typ.

Environmental Specifications

Operating temperature (ambient)

-25°C to +71°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

12,2 g

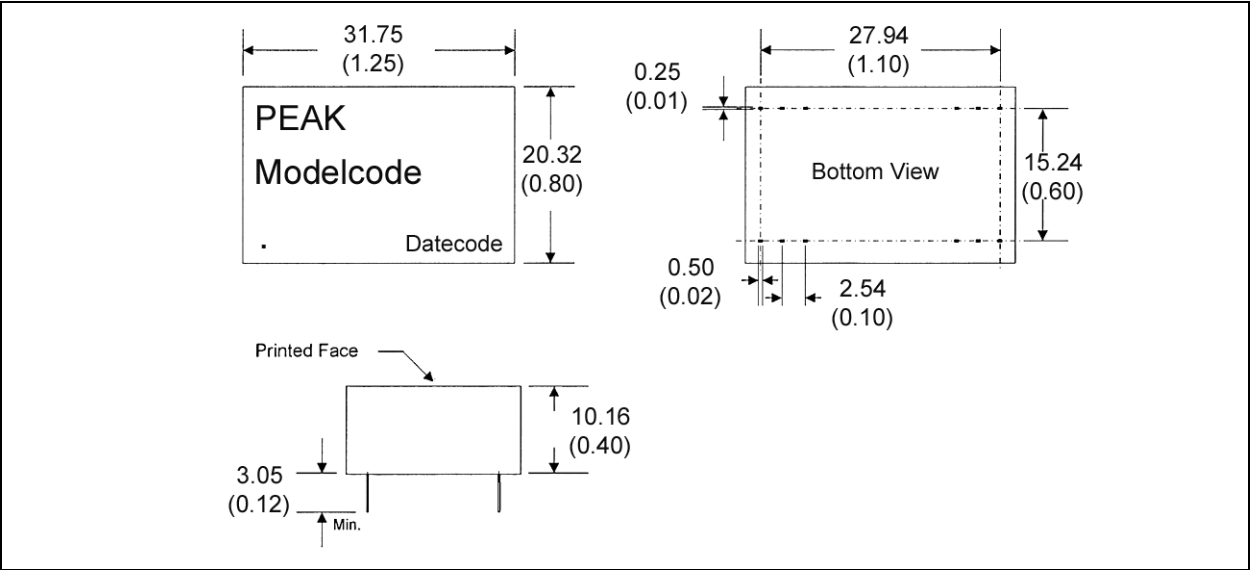
Case material

Non conductive black plastic

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.)
P14SG-0505Z	5	112	938	+/- 5	+/- 300	64
P14SG-0512Z	5	109	910	+/- 12	+/- 125	65
P14SG-1205Z	12	88	378	+/- 5	+/- 300	66
P14SG-1212Z	12	54	362	+/- 12	+/- 125	69
P14SG-2405Z	24	35	192	+/- 5	+/- 300	65
P14SG-2412Z	24	33	181	+/- 12	+/- 125	69
P14SG-2415Z	24	32	181	+/- 15	+/- 100	69

Dimensions



Derating Graph and Pinning

