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P6MG-XXXXE 3KV ISOLATED 1 W REGULATED SINGLE OUTPUT DIP14

Available Inputs: 5, 12 and 24 VDC

Available Outputs: 3.0, 3.3, 5, 9, 12 and 15 VDC

Other specifications please enquire.

Electrical Specifications

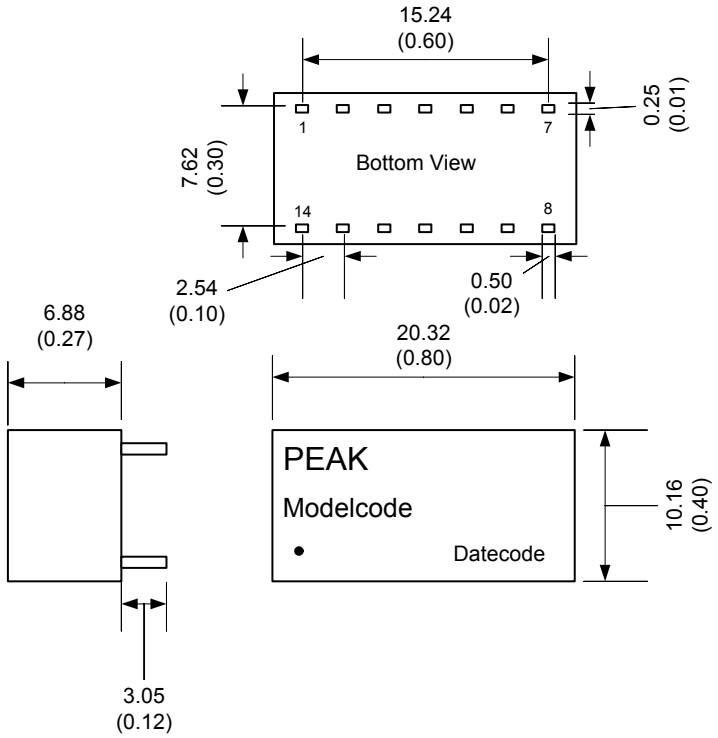
(Typical at + 25° C, nominal input voltage, rated output current unless otherwise specified)

Input Specifications	
Voltage range	+/- 10 %
Filter	Capacitors
Isolation Specifications	
Rated voltage	3000 VDC
Resistance	10^9 Ohm
Capacitance	60 pF typ.
Output Specifications	
Voltage accuracy	+/- 2 %
Ripple and noise (at 20 MHz BW)	50 mV p-p, max.
Short circuit protection	Short term
Line voltage regulation	+/- 0,5 % max. (3.3 VDC output +/- 1% max.)
Load voltage regulation	+/- 0,5 % typ., +/- 1% max. (no load/full load)
Temperature coefficient	+/- 0,02 % / °C
General Specifications	
Efficiency	58 % to 66 %
Switching frequency	70 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 6,88 mm 0,80 x 0,40 x 0,27 inches
Weight	2,0 g
Case material	Non conductive black plastic

Examples of Partnumbers/Modelcode

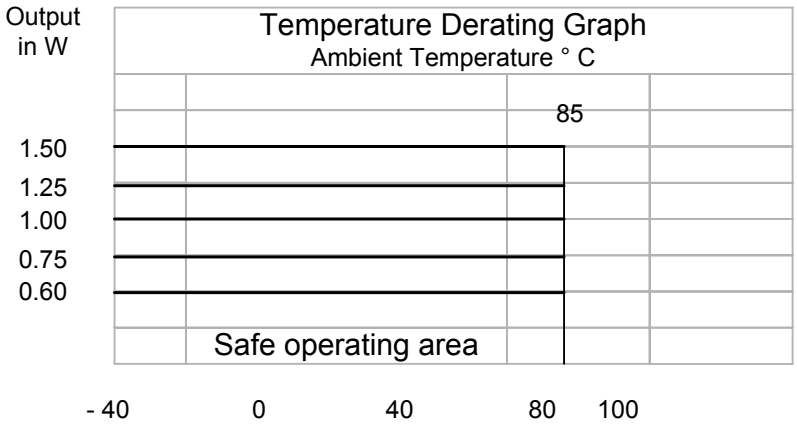
PART NO.	INPUT VOLTAGE (VDC)	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYP.)
P6MG-0503E	5	20	200	3	200	60
P6MG-053R3E	5	22	220	3,3	200	60
P6MG-054R8E	5	25	318	4,85	200	61
P6MG-0505E	5	28	312	5	200	63
P6MG-0509E	5	32	312	9	111	64
P6MG-0512E	5	45	312	12	84	64
P6MG-1203E	12	15	83	3	200	60
P6MG-123R3E	12	15	92	3,3	200	60
P6MG-124R8E	12	15	133	4,85	200	61
P6MG-1205E	12	16	130	5	200	64
P6MG-1209E	12	16	123	9	111	68
P6MG-1212E	12	22	123	12	84	68
P6MG-2403E	24	8	43	3	200	58
P6MG-243R3E	24	8	47	3,3	200	58
P6MG-244R8E	24	7	64	4,85	200	63
P6MG-2405E	24	7	64	5	200	65
P6MG-2409E	24	10	63	9	111	66
P6MG-2412E	24	10	63	12	84	66

Dimensions



All dimensions are typical in millimeters (inches).
Tolerance x.xx = +/- 0.30 (+/- 0.01)
Specification may change without notice.
Pin length is typical.

Derating Graph and Pinning



Pin	Connection		
#	Single		
1	-	V	Input
7			N. C.
8	+	V	Output
9			Omitted
10	-	V	Output
11			Omitted
14	+	V	Input

If specification prior to this data sheet is needed, please enquire.

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