

SELECTION GUIDE

Order code	INPUT VOLTAGE (VDC) Nominal	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYP.)
H0505XPD-2W	5	50	615	5	400	65
H0509XPD-2W	5	47	545	9	200	66
H1205XPD-2W	12	40	252	5	400	66
H1209XPD-2W	12	38	220	9	200	68
H1212XPD-2W	12	35	245	12	167	68
H2405XPD-2W	24	16	128	5	400	65

FEATURES

- ◆ INPUT 5, 12 and 24 VDC
- ◆ LOW OUTPUT RIPPLE & NOISE
- ◆ PI TYPE INPUT FILTER
- ◆ OUTPUT 5, 9, 12VDC
- ◆ HIGH EFFICIENCY UP TO 78%
- ◆ STANDARD 24 PIN DIP PACKAGE
- ◆ Other specifications please enquire

MODEL SELECTION

H^①05^②05^③-X^④PD^⑤-2W(400)^⑥

- ① Product Series
- ② Input Voltage
- ③ Output Voltage
- ④ Fixed Input
- ⑤ DIP24 Package Style
- ⑥ Rated Power(Output current)

APPLICATIONS

The H-XPD-2W series offer 2 watts of output power from a package in an IC compatible 24 pin DIP configuration without derating to 71°C ambient temperature. H-XPD-2W features 5200VDC of isolation voltage.

Technical Data Input

Parameter	Conditions	Data
U _{in}	DC Input Voltage	5VDC 12VDC 24VDC
f _{sw}	Switching Frequency	20KHZ typ
η	Efficiency	50%
	Input Filter	π-Filter

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	5200 Vdc
Leakage current	1 mA
Resistance	10 ⁹ 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)	-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

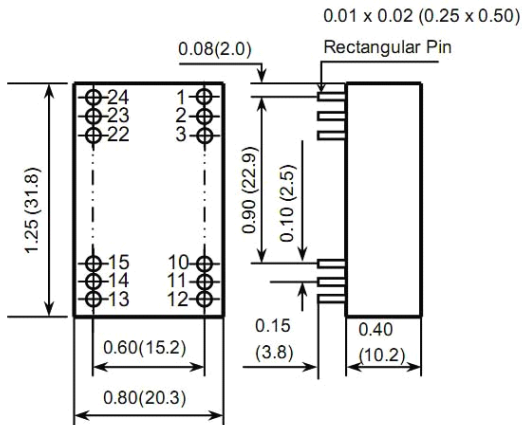
Physical Characteristics

Dimensions	31,8 x 20,3x 10,2 mm 1,25 x 0,80 x 0,40 inches
Weight	12,2 g
Case material	Non conductive black plastic



CE REACH
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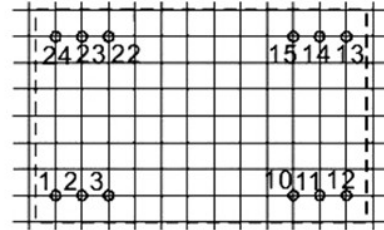
MECHANICAL DIMENSIONS



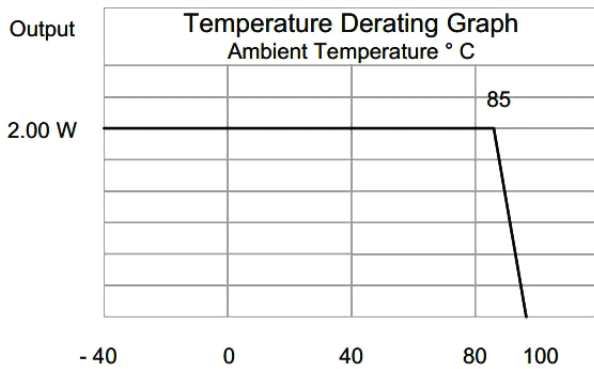
Note:
 Unit:mm(inch)
 Pin diameter:0.50mm (0.020inch)
 Pin diameter tolerances: ± 0.10 mm(± 0.004 inch)
 General tolerances: ± 0.25 mm(± 0.010 inch)

RECOMMENDED FOOTPRINT

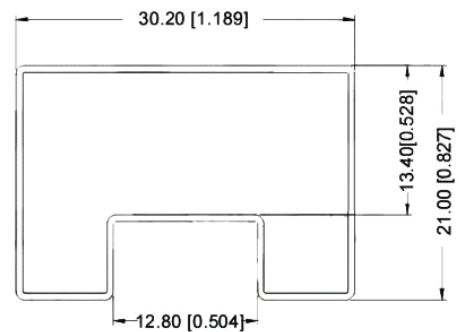
RECOMMENDED FOOTPRINT
 Top view, grid:2.54mm(0.1inch)
 diameter:1.00mm(0.039inch)



Temperature derating curve



TUBE OUTLINE DIMENSIONS



Note:
 Unit :mm[inch]
General tolerances: ± 0.50 mm[± 0.020 inch]
L=530mm[20.866inch] Tube Quantity: 19pcs
L=220mm[8.661inch] Tube Quantity: 7pcs

FOOTPRINT DETAILS

Pin	Connection Single
1, 2	+V Input
3, 10, 11	Omitted
12	-V Output
13	+V Output
14, 15, 22	Omitted
23, 24	-V Input