



**POWER MATE
TECHNOLOGY CO., LTD.**
NO. 36, Road 22nd, Taichung, Industrial
Park, Taichung, Taiwan, R.O.C.
TEL: 886-4-23590668
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**DC/DC
CONVERTERS**
MARKETING DEPT.
DIRECT LINE: 886-4-23591087
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E-mail: sales@pduke.com
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FDC05-48S120

DC/DC CONVERTER SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

All specifications are typical at 48VDC input, full load, and 25 °C unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltage Range, 48V nominal _____ 36 to 72 VDC.
Input Filter _____ Pi Type

OUTPUT SPECIFICATIONS

Voltage Accuracy, Single output _____ $\pm 2\%$
Ripple and Noise, 20MHz BW _____ 200mV P-P max.
Line Regulation, HL-LL _____ $\pm 0.5\%$
Load Regulation, FL-1/4FL _____ $\pm 0.5\%$
Temperature Coefficient _____ $\pm 0.02\%/^{\circ}\text{C}$
Short Circuit Protection _____ Indefinite
Transient Response Recovery Time,
Single, 25% Load Step Change _____ 500 μsec
Output Voltage _____ 120VDC
Output Current _____ 30mA
Efficiency _____ 76% Typ.

GENERAL SPECIFICATIONS

Switching Frequency _____ 210KHz, typ.
Isolation Voltage _____ 1600VDC, min.
Isolation Resistance _____ $10^9\Omega$, min.



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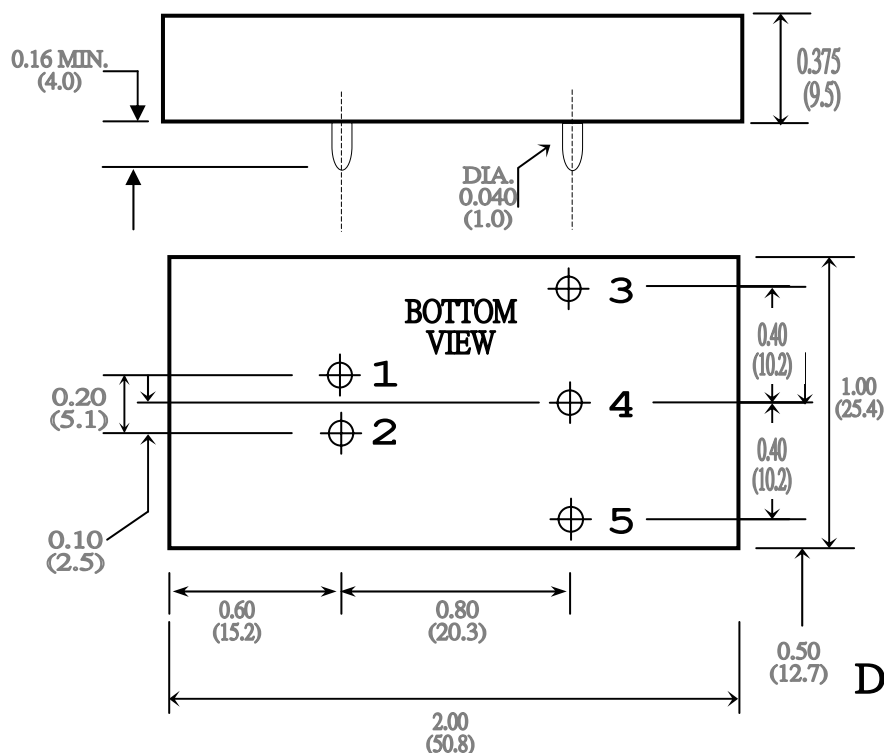
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range _____ -25 to +71
Storage Temperature Range _____ -55 to +125
Cooling _____ Free-air Convection
EMI/RFI _____ Six-sided Continuous Shield

PHYSICAL SPECIFICATIONS

Case Material _____ Nickel-Coated Copper with
Non-Conductive Base
Dimensions _____ 2.0 x 1.0 x 0.375 Inches
(50.8 x 25.4 x 9.5mm)

Mechanical Configuration:



Pin Connections	
Pin#	FDC05-48S120
1	+Vin
2	-Vin
3	+Vout
4	No Pin
5	-Vout

Dimensions in inches and (mm)
Tolerance .xx = ±0.02
.xxx = ±0.005