

- Compact 30.5 x 29.3 x 8.81 mm
- 36 - 75VDC Input
- 3.3V - 15V Nominal Outputs
- Surface Mount
- 1500VDC Basic Isolation

iPB Series

33-45W

Pico Brick Converter

iPB Features and Benefits

Features

- High operating efficiency (up to 89%)
- Constant switching frequency
- 33% smaller than eighth brick

Benefits

- Reduced system heating
- Easier system filtering
- Optimization of board space

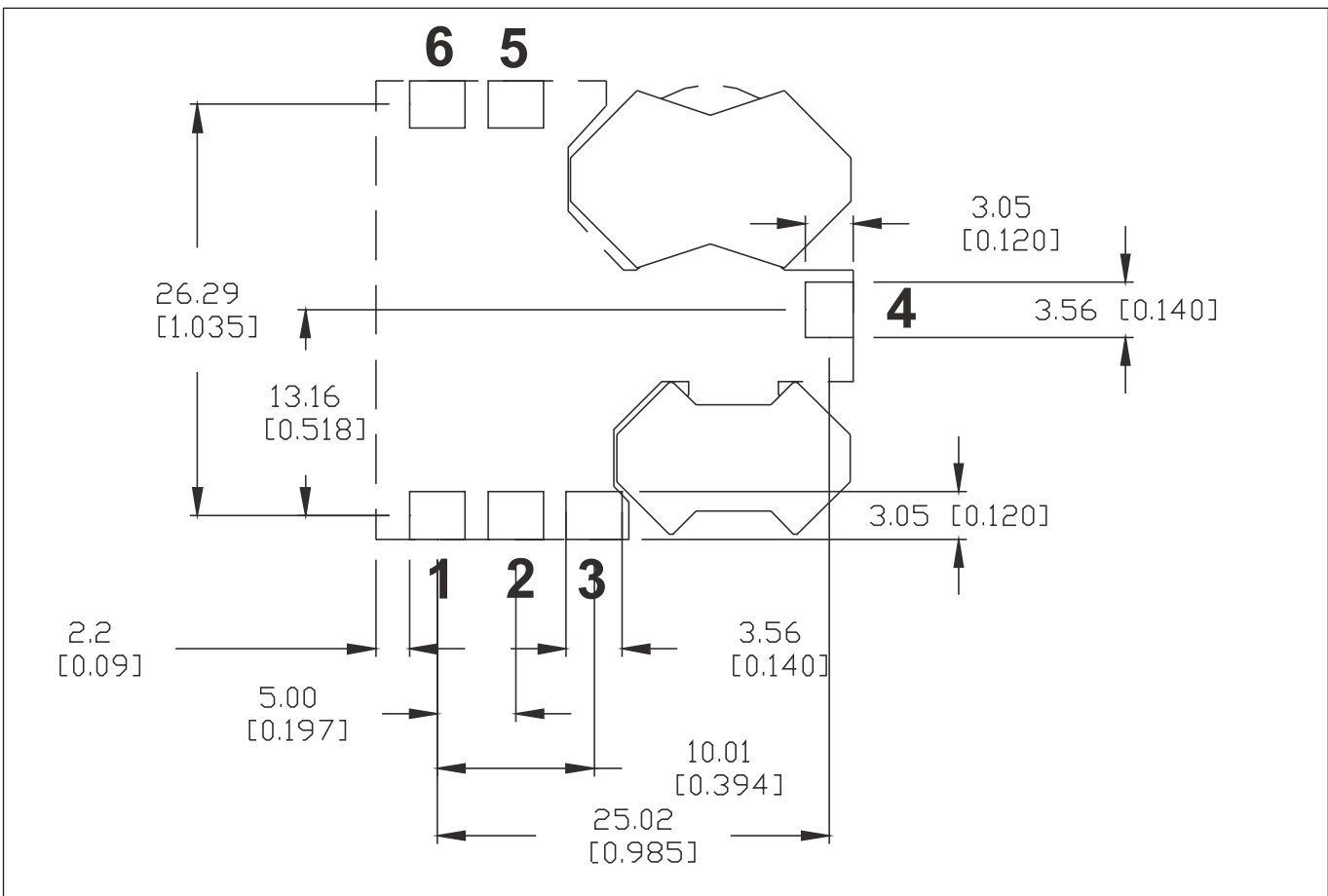
Specifications		iPB480			
MODEL		3.3	5	12	15
ITEMS					
Nominal Output Voltage	VDC	3.3	5	12	15
Input Voltage Range	VDC	36 - 75			
Input Current (max)	A	2.0 - 2.2 Amps model dependent			
Output Voltage Tolerance	VDC	3.19-3.41	4.8-5.2	11.52-12.48	14.4-15.6
Ripple & Noise (max) (pk to pk) (1)	mV	100	125	100	
Line Regulation (max)	mV	6	8	24	30
Load Regulation (max)	mV	12	15	96	120
Overload Protection (typ)	%	Inception - 120-150% of rated output; Short circuit - auto recovery			
Overvoltage Protection	VDC	12	10	19	19
Remote Sense	-	No			
Remote On / Off	-	Yes (Negative Logic)			
Temperature (operating)	°C	-40 to 115		-40 to 125	
Temperature (storage)	°C	-55 to 125			
Humidity (operating)	-	20-95% RH Non condensing			
Humidity (storage)	-	Per IPC / JEDEC J-STD-020, for MSL-1 (<30C/85%RH) in original packaging			
Cooling	-	Convection or forced air			
Isolation Voltage	VDC	1500			
Vibration (non operating)	-	5 to 50Hz @ 0.5g (4.9m/s ²), and 50 to 500Hz @ 1.5g (14.7m/s ²) per Bellcore TR-EOP-000063-5.4.4			
Shock	-	196.1m/s ²			
Safety Agency Approvals	-	UL60950 (US and Canada), VDE0805 (IEC60950), CB scheme (IEC60950), CE Mark (LVD)			
Weight (max)	g	18			
Size	mm	30.5 x 29.3 x 8.81			
Warranty	-	3 years			

Notes: (1) Measured across one 3.3uF ceramic capacitor and one 10uF tantalum capacitor; BW = 20MHz

Model Selector

Model	Voltage (V)	Adjust Range (V)	Max. Curr. (A)	Max. Output Power (W)	Efficiency at Full Load (%)
iPB48010A033V-001-R	3.3	2.97 - 3.46	10	33	88
iPB48007A050V-001-R	5	4.5 - 5.5	7	35	89
iPB48004A120V-001-R	12	10.8 - 13.2	3.5	42	88
iPB48003A150V-001-R	15	13.5 - 16.5	2.75	41	87

Recommended Footprint (Top View)



PIN Assignments

Pin#	Function
1	Vout (+)
2	Vout (-)
3	Vout Trim
4	On / Off
5	Vin (-)
6	Vin (+)



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