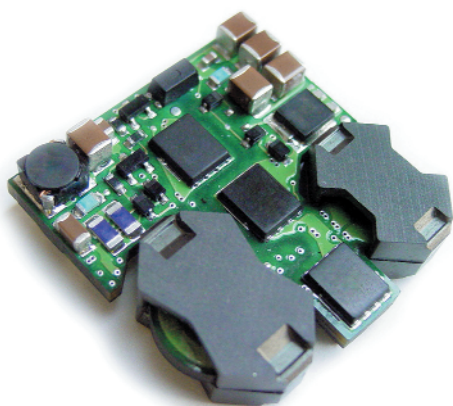




33-41W Pico Brick Converter

RoHS

- ◆ Compact 30.5 x 29.3 x 8.1 mm
- ◆ 36-75VDC Input
- ◆ 3.3V 10A, 15V 2.75A Nominal Outputs
- ◆ Surface Mount
- ◆ Low 8.81mm Profile
- ◆ 1500VDC Basic Isolation

Features and Benefits

Feature	Benefit
◆ High operating efficiency (up to 89%)	◆ Reduced system heating
◆ Constant switching frequency	◆ Easier system filtering
◆ 33% smaller than eighth brick	◆ Optimization of board space

Specifications

MODEL		iPB480			
ITEMS		3.3	5	12	15
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	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 (typ)	VDC	4	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 (<30°C/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			

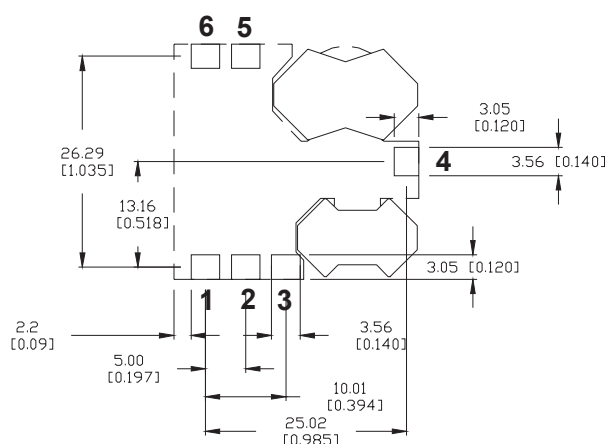
Notes: See website for detailed specifications

- (1) Measured across one 3.3µF ceramic capacitor and one 10µF Tan capacitor;
BW = 20MHz

Model Selector

Model	Output Voltage (V)	Voltage Adjust (V)	Output 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	17.46 - 18.54	3.5	42	88
iPB48003A150V-001-R	15	13.5 - 16.5	2.75	41	87

Recommended Footprint (Top View)



Pinout

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

For Additional Information, please visit
www.lambdapower.com/products/ipb-series.htm

Other Lambda DC-DC Products

CC-E	1.5-12W, 1 to 2 Outputs, 5 to 48VDC Input
PX	10-40W, 1 to 3 Outputs, 12 to 48VDC Input
iSA	30-78W, 1.2-12V Output, 36-75VDC Input, Sixteenth Bricks
iEA	30-78W, 1.2-28V Output, 36-75VDC Input, Eighth Brick DC-DC
PAE50/100	36-100W, 1.9-5V Output, 36-75VDC Input. Eighth Brick DC-DC
iEB	150W, 12V Output, 42-56V Input, Eighth Brick Intermediate Bus DC-DC
iQD	300W, 12V Output, 42-53VDC Input, Quarter Brick Intermediate Bus DC-DC
iQB, iQM, iQN, iQP	30-300W, 1.2-12V Output, 24 to 48VDC Input, Quarter Brick DC-DC
PAH300/350	300-350W, 12 to 28V Output, 36-75VDC Input, Half Brick DC-DC
PAF	400-700W, 1.8 to 48V output, 24 to 400VDC Input, Full Brick DC-DC
FPS	1kW to 3kW, 24 to 48V Output, AC-DC Front Ends
iAA, iBC, PL	Non Isolated DC-DC Converters