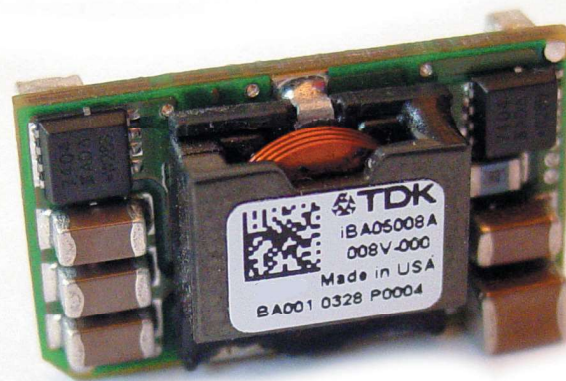


7 - 8A Non-isolated Point of Load

Features

- ◆ Standard Industry Footprint
- ◆ 3.0-5.5V and 6.0-14.0V Input
- ◆ 0.8-5.0V Nominal Output
- ◆ Low 8.38mm Profile
- ◆ High operating efficiency (up to 95%)
- ◆ Constant switching frequency
- ◆ Starts with pre-biased output

Key Market Segments & Applications



Specifications				
Model		iBA05008A008V		IBC12007A008V
Nominal Output Voltage	VDC	0.75 - 3.63		0.8 - 5.0
Input Voltage Range	VDC	3.0 - 5.5 ⁽²⁾		6.0 ⁽¹⁾ - 14
Input Current (max)	A	8.5		
Output Voltage Tolerance	VDC	N/A		
Ripple & Noise (max)(pk to pk) (3)	mV	75		100
Line Regulation (max)	mV	5		20
Load Regulation (max)	mV	10		30
Overload Protection	%	Inception- 185-215% of rated output; Short circuit - auto recovery		
Overvoltage Protection	-	N/A		
Remote Sense	-	No		
Remote On / Off	-	Positive or Negative Logic available, see Module Selector		
Sequencing	-	No		Yes
Temperature (operating)	°C	-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 ⁴ (<30C/85%RH) in original packaging		
Cooling	-	Convection or forced air		
Isolation Voltage	VDC	none		
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)		
Weight (max)	g	7		
Size	mm	20.3 x 11.4 x 8.38		27.9 x 11.4 x 8.38
Warranty	-	3 Years		

Notes: See website for detailed specifications

(1) 8.3-14V when output is >3.63V

(2) 4.5 - 5.5V when output is ≥3.0V

(3) Measured across one 0.1μF ceramic capacitor and one 47μF ceramic capacitor; BW = 20MHz

(4) iBC MSL-2

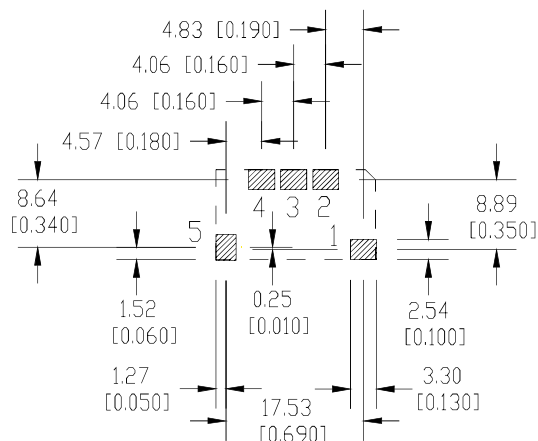
iBA - Last time buy date July 2019

Model Selector

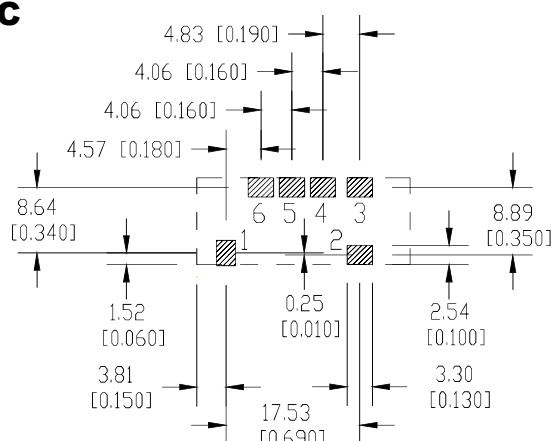
Model	Output Voltage (V)	Output Adjust (V)	Output Curr. (A)	Max. Output Power (W)	Efficiency at Full Load (%)	Pos. Logic On/Off	Neg. Logic On/Off	Seq.
iBA05008A008V-000-R	0.75-3.63	0.75-3.63	8	26.4	94 @ 3.3V	X		
iBA05008A008V-001-R	0.75-3.63	0.75-3.63	8	26.4	94 @ 3.3V		X	
iBC12007A008V-000-R	0.80-5.50	0.80-5.00	7	35.0	93 @ 5.0V	X		X
iBC12007A008V-001-R	0.80-5.50	0.80-5.00	7	35.0	93 @ 5.0V		X	X

Recommended Footprint (Top View)

iBA



iBC



Other 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
iPB	15-35W, 1.5-5V Output, 36-75VDC Input, Pico Brick
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	30-300W, 1.2-12V Output, 24 to 48VDC Input, Quarter Brick DC-DC
PAH300/450	300-450W, 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, iAD	Non Isolated DC-DC Converters

Pinout

PIN	Function	
	iBA	iBC
1	Vin	On/Off
2	Gnd	Vin
3	Trim	Seq
4	Vout	Gnd
5	On/Off	Trim
6	-	Vout

For Additional Information, please visit
us.tdk-lambda.com/lp/products/iba-series.htm



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