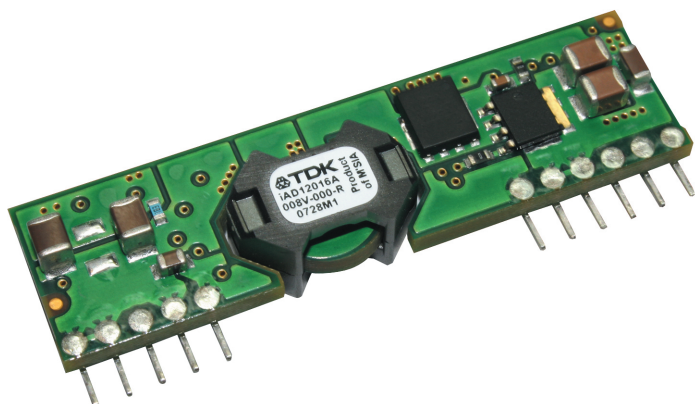


16A Point of Load Converter

RoHS



- ◆ Standard SIP Footprint
- ◆ 6.0-14VDC Input
- ◆ 0.8-5.5V Outputs
- ◆ Through Hole Mounting
- ◆ Low 13.97mm Profile
- ◆ Non Isolated Output

Features and Benefits

Feature	Benefit
◆ High operating efficiency (up to 94%)	◆ Reduced system heating
◆ Constant switching frequency	◆ Easier system filtering
◆ Starts with pre-biased output	◆ Supports complex digital systems

Specifications

MODEL		iAD
ITEMS		
Nominal Output Voltage	VDC	0.8 - 5.5V
Input Voltage Range	VDC	6 - 14V
Input Current (max)	A	18A
Output Voltage Tolerance	VDC	N/A
Ripple & Noise (max) (pk-pk)	mV	100
Line Regulation (max)	mV	15
Load Regulation (max)	mV	22
Overload Protection	%	Inception - 28A; Short circuit - auto recovery
Overvoltage Protection	-	N/A
Remote Sense	-	Yes
Remote On / Off	-	Positive or Negative Logic available, see Model Selector
Sequencing	-	Yes
Temperature (operating)	°C	-40 to 125
Temperature (storage)	°C	-55 to 125
Humidity (operating)	-	20-95% RH Non condensing
Humidity (storage)	-	10-95% RH Non condensing
Cooling	-	Convection or forced air
Isolation Voltage	-	none
Vibration (non-operating)	-	5 to 50Hz@0.5g (4.9m/s ²), & 50 to 500Hz@1.5g (14.7m/s ²) per Bellcore TR-EOP-000063-5.4.4
Shock	-	196.1m/s ²
Safety Agency Certifications	-	UL60950 (US and Canada), VDE0805 (IEC60950), CB scheme (IEC60950)
Weight (max)	g	12
Size (LxWxH)	mm	50.8 x 7.9 x 14
Warranty	-	3 Years

Note: See website for detailed specifications and test methods

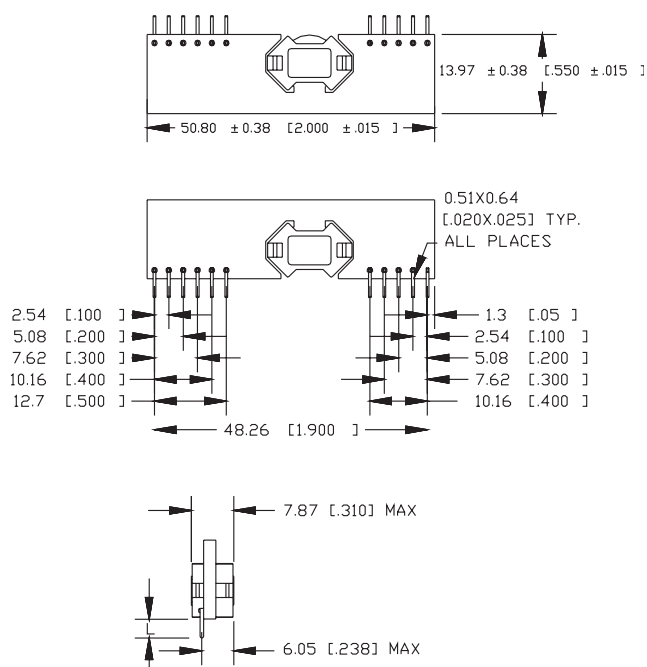
Model Selector

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
iAD12016A008V-000-R	0.8 - 5.5	0.8 - 5.5	16	80	94% @ 5V	X	
iAD12016A008V-001-R	0.8 - 5.5	0.8 - 5.5	16	80	94% @ 5V		X

Outline Drawing

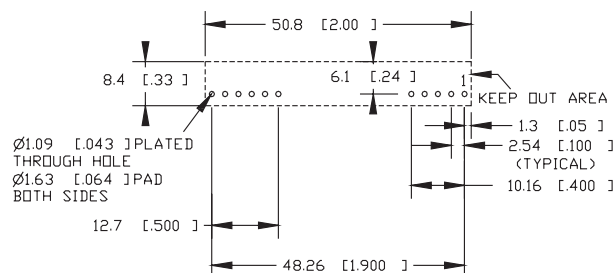
Mechanical Specifications:

Dimensions are in mm [in]. Unless otherwise specified tolerances are: x.x ±0.5 [0.02], x.xx ±0.25 [0.010]



Short options L = 3.3 [0.13]

Recommended Hole Pattern: (Top View)



Pinout

PIN	Function	PIN	Function
1	Vout	6	GND
2	Vout	7	Vin
3	Sense	8	Vin
4	Vout	9	Sequencing
5	GND	10	Trim
		11	On / Off

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
iPB	15-35W, 1.5-5V Output, 36-75VDC Input, Pico Brick
iS	Sixteenth Bricks DC-DC
iE	Eighth Brick DC-DC
iQ	Quarter Brick DC-DC
PAH300/350	Half Brick DC-DC
PAF	Full Brick DC-DC
FPS	1kW to 3kW, 12 to 48V Output, AC-DC Front Ends
PFE	AC-DC Power Module
iA, iB	Non Isolated DC-DC Converters

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