



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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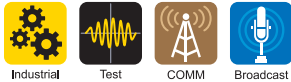
40A Non-isolated SMT Point of Load

Features

- ◆ DOSA Compatible Footprint
- ◆ Surface Mountable
- ◆ Constant Switching Frequency
- ◆ No external loop tuning components needed
- ◆ Excellent Transient Response



Key Market Segments & Applications



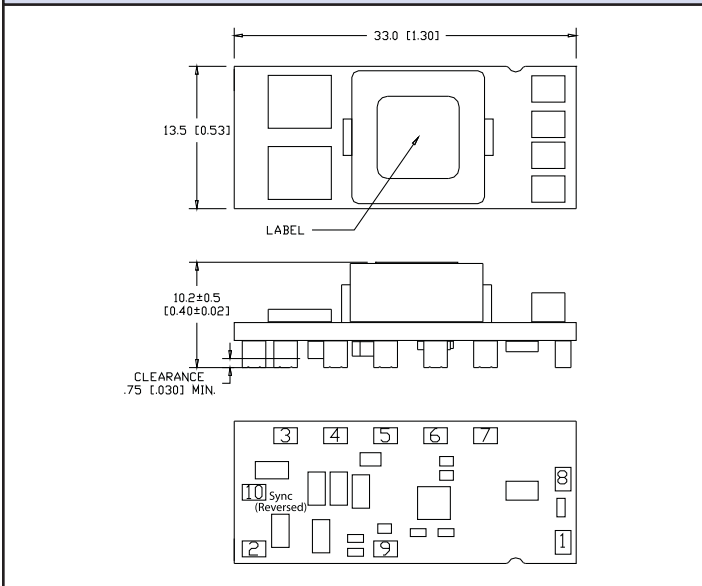
Specifications		
Model		iAH12
DC Output Voltage	V	0.7 - 5.5
DC Output Current	A	Vo.set <= 2.5V and Vin > 4.5V, 40A max. Observe max. power limit Vo. set > 2.5V or Vin < 4.5V, 30A max. As Vout increases, current must decrease in order to observe max. power limit
DC Output Power (max)	W	150
DC Input Voltage	V	3.5 - 17
Efficiency	%	84 - 96
Output Voltage Tolerance	%	±3
Switching Frequency	kHz	600
Line Regulation	mV	4
Load Regulation	mV	7
External Load Capacitance	uF	200 - 2000
Output Ripple and Noise	mVpp	20
Overcurrent Protection	A	50A typical
Remote On / Off	-	Yes, see model selector table
Remote Sense	-	(+) Sense, compensating up to 0.5V
Power Good	-	Yes, Low on fail
Operating Temperature	°C	-40 to 115 (see thermal data on website)
Storage Temperature	°C	-55 to 125
Safety Agency Certifications	-	Pending
Weight	g/oz	12g / 0.42 oz
Size (LxWxH)	mm/in.	33 x 13.5 x 10.2 / 1.3 x 0.53 x 0.4
Warranty	yrs	3 years

Model Selector

Input Model	Input Voltage (V)	Output Current (A)	Output Voltage (V)	Positive Logic On/Off	Negative Logic On/Off	Sequencing
iAH12040A007V-006-R	3.5 - 17	40	0.7 - 5.5	yes	-	-
iAH12040A007V-007-R	3.5 - 17	40	0.7 - 5.5	-	yes	-

Preferred

Outline Drawing



Pinout

PIN	Function	PIN	Function
1	ON / OFF	6	TRIM
2	VIN	7	SENSE (+)
3	Sequencing	8	Reserved
4	GND	9	PWR GOOD
5	VOUT	10	Sync (Reserved)

Other Industrial Products

CC-E, CCG	1.5 - 30W 5, 12, 24 or 48V input isolated DC-DC converters
PX	10 - 60W 12, 24 or 48V input isolated DC-DC converters
iBF, iBH, iCF, iCH, iCG	3 - 20A DOSA2 non isolated DC-DC converters
iJA, iJB, iJC	35 - 100A non isolated DC-DC converters with PMBus

For Additional Information, please visit us.tdk-lambda.com/lp/products/dosa2-series.htm



Voltage Operating Range

