



Industrial



Test



Comm



Broadcast

40A Non-isolated SMT Point of Load



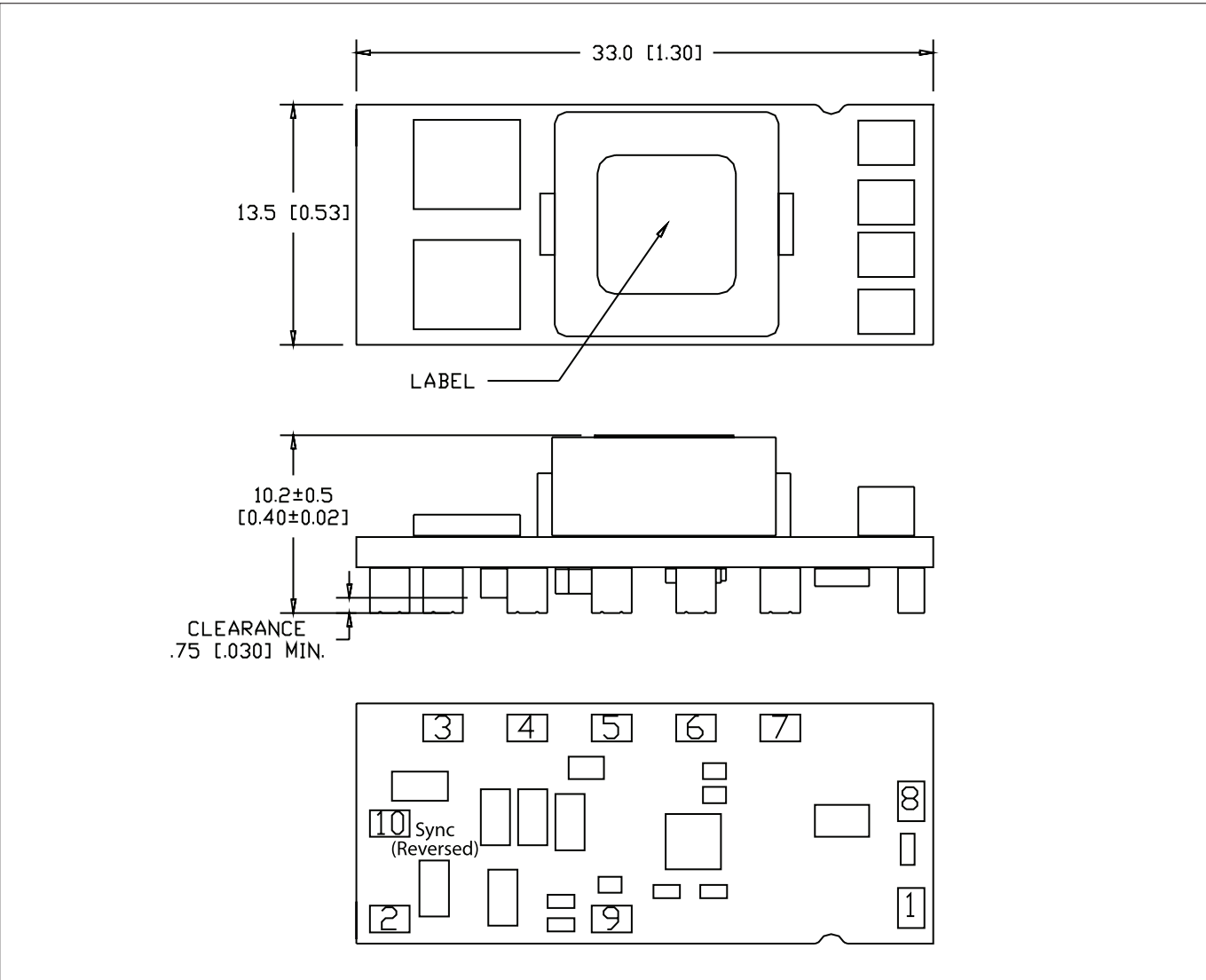
Features	Benefits
• DOSA Compatible Footprint	• Ideal for Second Sourcing
• Constant Switching Frequency	• Predictable EMI
• No external Loop Tuning Components Needed	• Less Board Area Needed
• Excellent Transient Response	• For Sensitive Applications

Specification		
Model	iAH12	
DC Output Voltage	V	0.7 - 5.5
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°C to 115°C (see thermal data on website)
Storage Temperature	°C	-55°C to 125°C
Safety Agency Approvals	-	IEC/EN 60950-1, UL/CSA 60950-1, CE mark (LVD & RoHS2)
Weight	gms	12g
Size (LxWxH)	mm	33 x 13.5 x 10.2
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 iAH Series



Pin Assignment			
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)



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