Industrial Test Comm Broadcast

85W, 12A 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

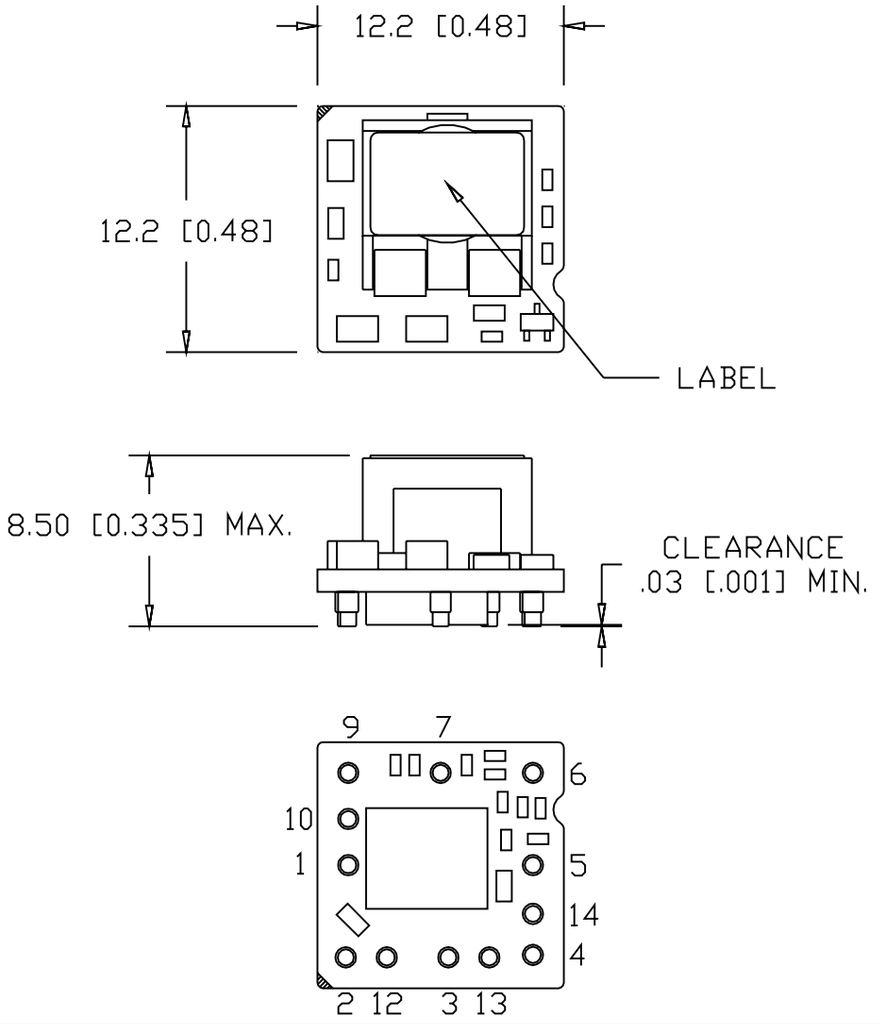
Model		iCH
DC Output Voltage	V	0.7 - 8.5
DC Input Voltage	V	4.5 - 14
Efficiency	%	88.5 - 97
Output Voltage Tolerance	%	±3
Switching Frequency	kHz	500
Line Regulation	mV	5
Load Regulation	mV	6
External Load Capacitance	uF	200 - 2000
Output Ripple and Noise	mVpp	15
Overcurrent Protection	A	22A typical
Remote On / Off	-	Positive Logic (For Negative Logic Contact Factory)
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	g / oz	2.5g / 0.088 oz
Size (LxWxH)	mm	12.2 x 12.2 x 8.5
Warranty	yrs	3

Model Selector

Input Model	Input Voltage (V)	Output Current (A)	Output Voltage (V)	Positive Logic On/Off	Negative Logic On/Off
iCH12012A007V-007-R	4.5 - 14	12	0.7 - 8.5	-	yes
iCH12012A007V-006-R	4.5 - 14	12	0.7 - 8.5	yes	-

Preferred

Outline Drawing iCH Series



Pin Assignment

PIN	Function	PIN	Function
1	ON / OFF	8	Not Fitted
2	VIN	9	Not Connected
3	GND	10	PWR GOOD
4	VOUT	11	Not Fitted
5	SENSE (+)	12	VIN
6	TRIM	13	GND
7	GND	14	VOUT

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