Industrial Test Comm Broadcast

6A Non-isolated SMT Point of Load

Features	Benefits
• Fully Optimised Control Loop with Excellent Transient Response	• No External Loop Tuning Components Needed
• DOSA Compatible Footprint	• Ideal for Second Sourcing
• LGA or EPC Format	• Choice of Layout

Specification

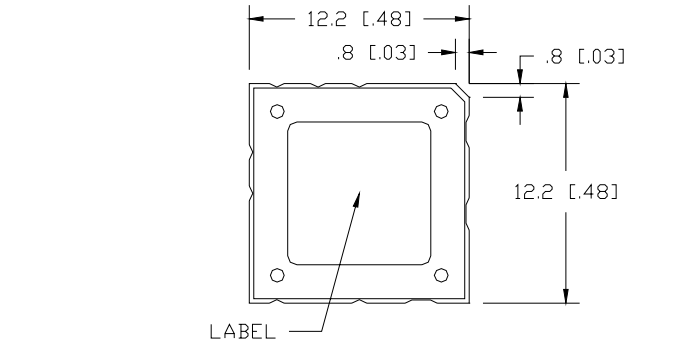
Model		iCG
DC Output Voltage	V	0.70 - 5.5
DC Input Voltage	V	4.5 - 14
Efficiency	%	84 - 94 (1.2Vout to 5Vout)
Output Voltage Tolerance	%	±3
Switching Frequency	kHz	600
Line Regulation	mV	3
Load Regulation	mV	6
Preload	-	none
Output Ripple and Noise	mVpp	15
Overcurrent Protection	A	Hiccup Type
Remote On / Off	-	yes
Remote Sense	-	yes
Power Good Signal	-	yes
Operating Temperature	°C	-40°C to 115°C (see thermal data on website)
Storage Temperature	°C	-55°C to 125°C
Safety Agency Approvals	-	UL60950-1, CSA 22.2 No.60950-1-03; VDE CB scheme (IEC60950-1, EN60950-1)
Weight	g	3g
Size (LxWxH)	mm.	12.2 x 12.2 x 8.5
Warranty	yrs	3

Model Selector

Model	Input Voltage (V)	Output Current (A)	Output Voltage (V)	Positive Logic On/Off	Negative Logic On/Off	Sequencing	LGA Solder Bumping
iCG12006A007V-007-R	4.5 -14	6	0.70 - 5.5	-	yes	-	yes*

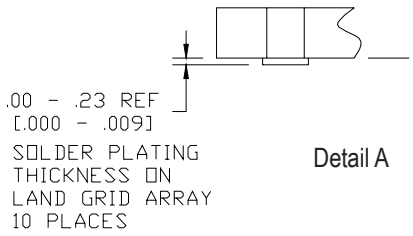
*For EPC solder bumping specify -003-R model suffix

Outline Drawing iCG Series

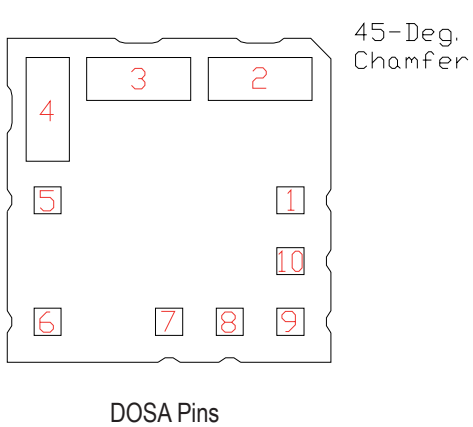


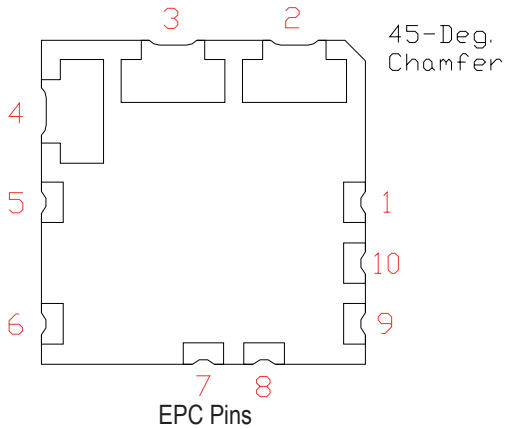
All Dimensions are in mmm.

Unless otherwise specified tolerances are: xx±0.25mm



Pin location bottom view





Pin Assignment

PIN	Function	PIN	Function
1	ON/OFF	6	TRIM
2	VIN	7	GND
3	GND	8	No Connection
4	VOUT	9	Reserved
5	SENSE	10	PWR GOOD

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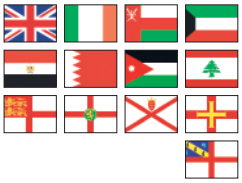

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Local Distribution

iCG Mar12 v1