



20A 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	iAF	
DC Output Voltage	V	0.70 - 5.5
DC Input Voltage	V	4.5 - 14
Efficiency	%	82 - 93.5 (1.2Vout to 5Vout)
Output Voltage Tolerance	%	±3
Switching Frequency	kHz	600
Line Regulation	mV	3
Load Regulation	mV	7
Preload	-	none
Output Ripple and Noise	mVpp	10
Overcurrent Protection	A	Hiccup Type
Remote On / Off	-	yes
Remote Sense	-	(+) Sense
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	5.5g
Size (LxWxH)	mm	33 x 13.46 x 7.75
Warranty	yrs	3 years

Model Selector

Model	Input Voltage (V)	Output Current (A)	Output Voltage (V)	Positive Logic On/Off	Negative Logic On/Off	Sequencing	LGA Solder Bumping
iAF12020A007V-007-R	4.5-14	20	0.70 - 5.5	-	yes	-	yes*

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

Outline Drawing iAF Series

33.02 [1.300]

13.46 [0.530]

7.75 [.305] MAX

.15 [.006] A

SEE DETAIL A

See ordering information for solder bumping options

.00 - .23 REF
[.000 - .009]
SOLDER PLATING THICKNESS
ON LAND GRID ARRAY
10 PLACES

DETAIL A

All Dimensions are in mm. (in).
Unless otherwise specified tolerances are: xx±0.5mm (0.02), xxx±0.25mm (0.10)

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

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Local Distribution

