



Industrial



Test



Comm



Broadcast

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

-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

TDK-LAMBDA EMEA

www.emea.tdk-lambda.com



TDK-Lambda France SAS

Route de Grivery
ZAC des Delaches
CS 41077
91978 Courtaboeuf Cedex
France
Tel: +33 1 60 12 71 65
Fax: +33 1 60 12 71 66
france@fr.tdk-lambda.com
www.fr.tdk-lambda.com



Italy Sales Office
Via dei Lavoratori 128/130
20092 Cinisello Balsamo (MI)
Italy
Tel: +39 02 61 29 38 63
Fax: +39 02 61 29 09 00
info.italia@it.tdk-lambda.com
www.it.tdk-lambda.com



TDK-Lambda Germany GmbH

Karl-Bold-Strasse 40
77855 Achern
Germany
Tel: +49 7841 666 0
Fax: +49 7841 5000
info.germany@de.tdk-lambda.com
www.de.tdk-lambda.com



Austria Sales Office
Aredstrasse 22
2544 Leobersdorf
Austria
Tel: +43 2256 655 84
Fax: +43 2256 645 12
info.germany@de.tdk-lambda.com
www.de.tdk-lambda.com



TDK-Lambda UK Ltd.

Kingsley Avenue
Ilfracombe
Devon EX34 8ES
United Kingdom
Tel: +44 (0) 12 71 85 66 66
Fax: +44 (0) 12 71 86 48 94
powersolutions@uk.tdk-lambda.com
www.uk.tdk-lambda.com



TDK-Lambda Ltd.

Kibbutz
Givat Hashlosha 48800
Israel
Tel: +9 723 902 4333
Fax: +9 723 902 4777
info@tdk-lambda.co.il
www.tdk-lambda.co.il



Russia

Technical Support:
St Petersburg
Tel: +7 (812) 6580463
Sales:
Moscow
Tel: +7 (499) 7557732
info@tdk-lambda.ru
www.tdk-lambda.ru

Local Distribution

