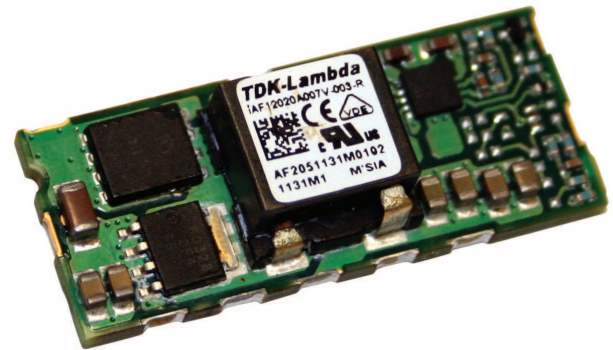


20A Non-isolated SMT Point Of Load

Features

- ◆ DOSA Compatible Footprint
- ◆ Surface Mountable
- ◆ Constant Switching Frequency
- ◆ Edge Plated Castellations (EPC)
 - Inspectable Solder Joints
- ◆ No external loop tuning components needed
- ◆ Excellent Transient Response



Key Market Segments & Applications



Specifications				
Model		iAF05		iAF12
DC Output Voltage	V	0.6 - 3.63		0.7 - 5.5
DC Input Voltage	V	2.4 - 5.5		4.5 - 14
Efficiency	%	85 - 93.5		82 - 93.5
Output Voltage Tolerance	%	±3		
Switching Frequency	kHz	600		
Line Regulation	mV	4		3
Load Regulation	mV	7		7
External Load Capacitance	uF	200 - 2000		
Output Ripple and Noise	mVpp	20		10
Overcurrent Protection	A	Hiccup Type		
Remote On / Off	-	Negative Logic (For Positive Logic Contact Factory)		
Remote Sense	-	(+) Sense, compensating up to 0.5V		
Power Good	-	Not available		Yes, Low on fail
Operating Temp	°C	-40 to 115 (see thermal data on website)		
Storage Temperature	°C	-55 to 125		
Safety Agency Approvals	-	UL60950-1, CSA 22.2 No.60950-1-03; VDE CB scheme (IEC60950-1, EN60950-1)		
Weight	g / oz	5.5g / 0.194 oz		
Size (LxWxH)	mm / in.	33 x 13.46 x 7.75 / 1.3 x 0.53 x 0.305		
Warranty	yrs	3 years		

	Input	Output	Output	Positive Logic	Negative Logic		EPC Solder
Model	Voltage (V)	Current (A)	Voltage (V)	On/Off	On/Off	Sequencing	Bumping
iAF05020A006V-003-R	2.4 - 5.5	20	0.6 - 3.63	-	yes	-	yes*
iAF12020A007V-003-R	4.5 -14	20	0.7 - 5.5	-	yes	-	yes*

Outline Drawing

13.46
[0.530]

33.02
[1.300]

SEE DETAIL A

7.75 [0.305] MAX

0.15 [0.006] A

0.00 - .23 REF
[.000 - .009]

SOLDER PLATING THICKNESS
ON LAND GRID ARRAY
10 PLACES

DETAIL A

32.87 [1.294]

31.22 [1.229]

28.07 [1.105]

23.24 [0.915]

18.42 [0.725]

13.59 [0.535]

8.76 [0.345]

2.90 x 2.03
[0.114 x 0.080] PAD
9 PLACES

12.45 [0.490]

8.00 [0.315]

1.90 [0.075]

1.02 [0.040]

18.42 [0.725]

31.12 [1.225]

6.73 [0.265]

1.02 [0.040]

3.00x1.52 [0.118x0.060] PAD
PLUS
0.30x2.90 [0.012x0.114] PAD

10 9 8 7 6 5 4 3 2 1

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

CC-E	1.5 - 30W 5, 12, 24 or 48V input isolated DC-DC converters
PX	10 - 60W 12, 24 or 48V input isolated DC-DC converters
iBF, iCF, iCG	3 - 12A DOSA2 non isolated DC-DC converters

