

110W, 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

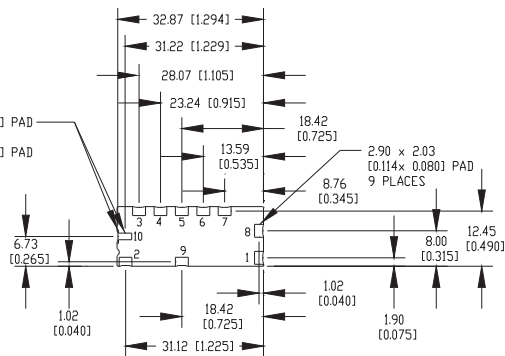
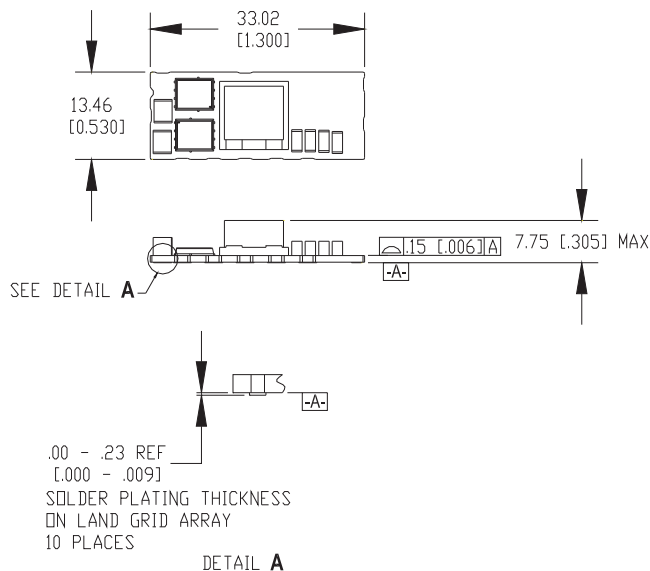
Model		iAF05		iAF12
DC Output Voltage	V	0.6 - 3.63		0.7 - 5.5
DC Input Voltage	V	2.4 - 5.5		4.5 - 14
Efficiency	%	85 - 93.5		82 - 93.5
Output Voltage Tolerance	%	±3		
Switching Frequency	kHz	600		
Line Regulation	mV	4		3
Load Regulation	mV	7		7
External Load Capacitance	uF	200 - 2000		
Output Ripple 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		

Model Selector

Model	Input Voltage (V)	Output Current (A)	Output Voltage (V)	Positive Logic On/Off	Negative Logic On/Off	Sequencing	Solder Bumping
iAF05020A006V-003-R	2.4 - 5.5	20	0.6 - 3.63	-	yes	-	EPC
iAF05020A006V-007-R	2.4 - 5.5	20	0.6 - 3.63	-	yes	-	LGA
iAF12020A007V-003-R	4.5 - 14	20	0.7 - 5.5	-	yes	-	EPC
iAF12020A007V-007-R	4.5 - 14	20	0.7 - 5.5	-	yes	-	LGA

Preferred Model

Outline Drawing (EPC Type)



Pinout

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

Other Industrial Products

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

For Additional Information, please visit
us.tdk-lambda.com/lp/products/iaf-series.htm

