

66W, 12A 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

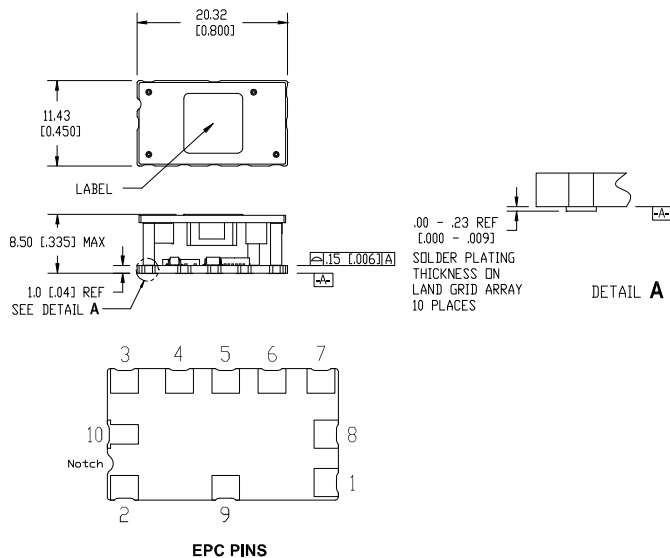
Model		iBF05	iBF12
DC Output Voltage	V	0.6 - 3.63	0.7 - 5.5
DC Input Voltage	V	2.4 - 5.5	4.5 - 14
Efficiency	%	84 - 93	83 - 94.5
Output Voltage Tolerance	%	±3	
Switching Frequency	kHz	600	
Line Regulation	mV	3	6
Load Regulation	mV	4	5
External Load Capacitance	uF	188 - 1800	100 - 1500
Output Ripple and Noise	mVpp	20	30
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.	20.32 x 11.43 x 8.5 / 0.80 x 0.45 x 0.335	
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
iBF05012A006V-003-R	2.4 - 5.5	12	0.6 - 3.63	-	Yes	-	EPC
iBF05012A006V-007-R	2.4 - 5.5	12	0.6 - 3.63	-	Yes	-	LGA
iBF12012A007V-001-R	4.5 - 14	12	0.7 - 5.5	-	Yes	Yes	EPC
iBF12012A007V-003-R	4.5 - 14	12	0.7 - 5.5	-	Yes	-	EPC
iBF12012A007V-007-R	4.5 - 14	12	0.7 - 5.5	-	Yes	-	LGA

Preferred Model

Outline Drawing (EPC Type)



Pinout

PIN	Function	PIN	Function
1	ON / OFF	6	VOUT
2	VIN	7	SENSE (+)
3	Reserved	8	Reserved
4	GND	9	PWR GOOD
5	TRIM	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
iAF, iCF, iCG	3 - 20A DOSA2 non isolated DC-DC converters

For Additional Information, please visit
<https://product.tdk.com/info/en/products/power/index.html>

