

# IBF12012A007V-007-R Datasheet

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DiGi Electronics Part Number	IBF12012A007V-007-R-DG
Manufacturer	<a href="#">TDK-Lambda Americas Inc</a>
Manufacturer Product Number	IBF12012A007V-007-R
Description	DC DC CONVERTER 0.7-5.5V
Detailed Description	Non-Isolated PoL Module DC DC Converter 1 Output 0.7 ~ 5.5V 12A 4.5V - 14V Input

This model IBF12012A007V-007-R is available at DiGi Electronics.

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## Purchase and inquiry

**Manufacturer Product Number:**

IBF12012A007V-007-R

**Series:**

iBF (66W)

**Type:**

Non-Isolated PoL Module

**Voltage - Input (Min):**

4.5V

**Voltage - Output 1:**

0.7 ~ 5.5V

**Voltage - Output 3:**

-

**Applications:**

ITE (Commercial)

**Operating Temperature:**

-40°C ~ 115°C

**Mounting Type:**

Surface Mount

**Size / Dimension:**

0.80" L x 0.45" W x 0.34" H (20.3mm x 11.4mm x 8.5mm)

**Base Product Number:**

IBF12012

**Manufacturer:**

TDK-Lambda Americas Inc

**Product Status:**

Active

**Number of Outputs:**

1

**Voltage - Input (Max):**

14V

**Voltage - Output 2:**

-

**Current - Output (Max):**

12A

**Features:**

Remote On/Off, OCP

**Efficiency:**

94.5%

**Package / Case:**

10-SMD Module

**Control Features:**

Enable, Active Low

## Environmental & Export classification

**RoHS Status:**

RoHS Compliant

**REACH Status:**

REACH Unaffected

**HTSUS:**

8504.40.9580

**Moisture Sensitivity Level (MSL):**

2 (1 Year)

**ECCN:**

EAR99



Industrial



Test



Comm



Broadcast

## 12A Non-isolated SMT Point of Load



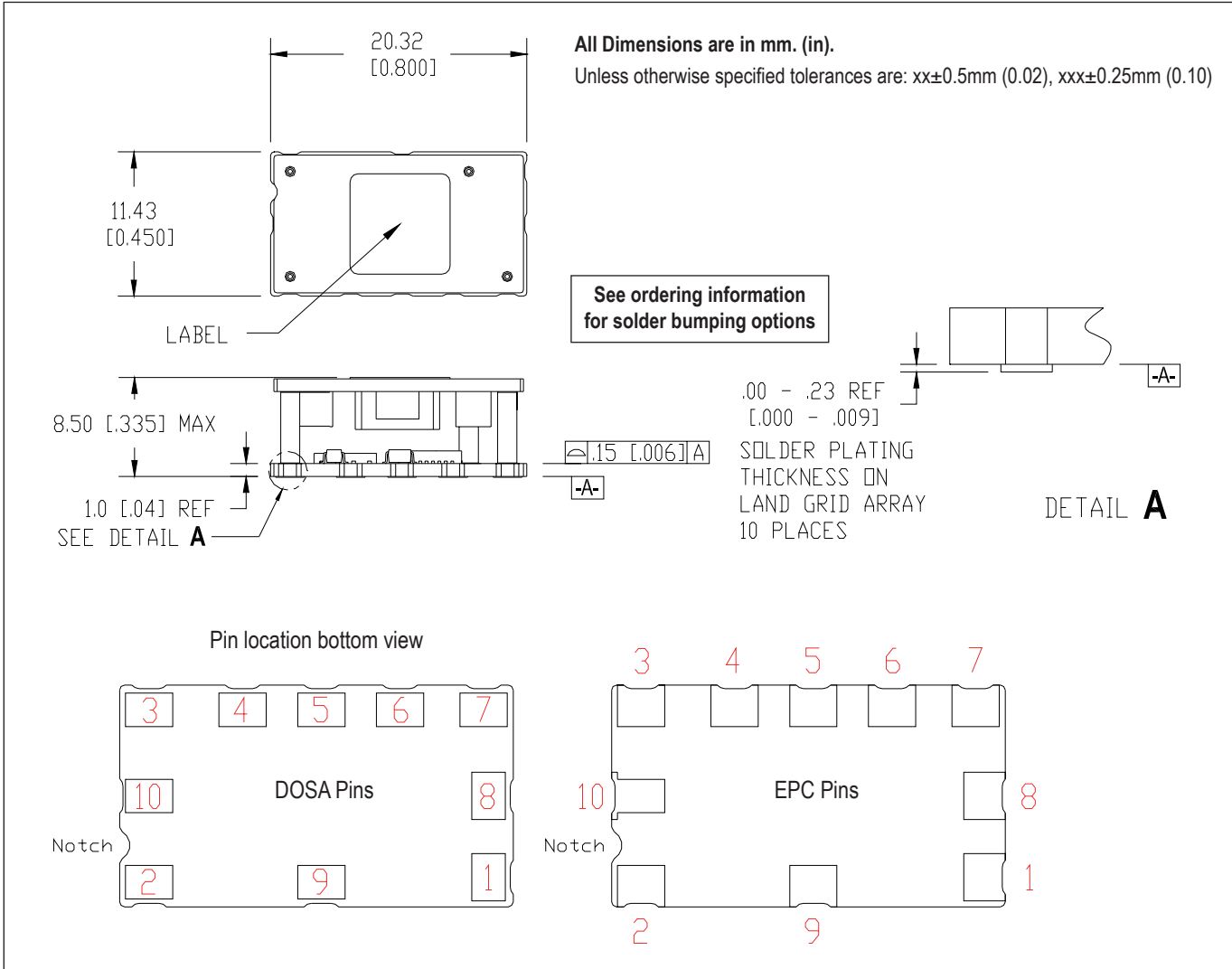
Features	Benefits
• Fully Optimised Control Loop with Excellent Transient Response	• No External Loop Tuning Components Needed
• DOSA Compatible Footprint	• Ideal for Second Sourcing
• LGA or EPC Format	• Choice of Layout

Specification		
Model	iBF	
DC Output Voltage	V	0.70 - 5.5
DC Input Voltage	V	4.5 - 14
Efficiency	%	83 - 94.5 (1.2Vout to 5Vout)
Output Voltage Tolerance	%	±3
Switching Frequency	kHz	600
Line Regulation	mV	6
Load Regulation	mV	5
Preload	-	none
Output Ripple and Noise	mVpp	30
Overcurrent Protection	A	Hiccup Type
Remote On / Off	-	yes
Remote Sense	-	yes
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	-	IEC/UL/CSA/EN62368-1, 60950-1, CE Mark
Weight	g	5.5g
Size (LxWxH)	mm	20.32 x 11.43 x 8.5
Warranty	yrs	3

Model Selector							
Model	Input Voltage (V)	Output Current (A)	Output Voltage (V)	Positive Logic On/Off	Negative Logic On/Off	Sequencing	LGA Solder Bumping
iBF12012A007V-007-R	4.5-14	12	0.70-5.5	-	yes	-	yes*

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

**Outline Drawing iBF Series**



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



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