	<	SPECIFI	CATION:	>
То :			SPE Date	EC.No. ASDIQ-SPE-112(00) e: Aug.03,2022
-				
		CUSTOMER'S PRO	DUCT NAME	
	ASDI PRODUCT NAME:			
	SFBS10080FS2-SERIES			
	I			
RECEIPT CONFIRM			CONIDIA	
UNCOND	OITIONAL C	ONSENT	CONDIT	FIONAL CONSENT
	APPROVED CHECKED			
ASDI SIGNATURE				
APPR	ROVED	CHECKED	PREPARED	]
Xiang	long Li	Liang Wang	Jiayin Cai	



REV.	DATE	DESCRIPTION	APPROVED	CHECKED	PREPARED
00	Aug.03,2022	New release	Xianglong Li	Liang Wang	Jiayin Cai

# **CAUTION WHEN HANDLING**

Before use the products, please read this specification.

# **CAUTION FOR SAFETY USING**

When use the products, be careful to mentioned below for safety using.

# **CAUTION**

\*The product should be used within 12 monthes.

Focus on the storage conditions.

Solderability may become weak if it exceeds the period.

\*Do not use and store the product in condition of gas corrosion(Salt,Acid,Alkaline).

\*The products must be preheated before soldering.

The operating temperature including self-generated heat must be within '-40 to +125 °C

\*Rework by soldering iron; Please keep the mentioned conditions in this specification.

\*In case of insert P.C. Board on chassis, do not add mechanical stress to the product.

\*Be careful to arrange of non-magnetic field type inductors.

The error may be caused by magnetic field coupling.

\*In case handle the products, please use wrist strap for ground static discharge on human body.

The product keeps away from magnet or magnetized things.

\*Do not use the product beyond the mentioned conditions in this specification.

\*About an application

The products listed on this specification sheet are intended for use in general electronic equipment

(AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

\*The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this specification sheet.

1)Aerospace/Aviation equipment
2)Military equipment
3)Seabed equipment
4)Safety equipment
5)Medical equipment

6)Transportation control equipment
7)Power-generation control equipment
which directly endanger human life
8)Atomic energy-related equipment
9)Other applications that are not

considered general-purpose applications

If you intend to use the products in the following applications, please contact our sales office. Transportation equipment (cars, electric trains, ships, etc.), Public information-processing equipment, Electric heating apparatus / burning equipment, Disaster prevention/crime prevention equipment

When using this product in general-purpose applications, you are kindly requested to take into consideration securing protection circuit/equipment or providing backup circuits, etc., to ensure higher safety.

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CUSTOMER	ASDI PART No.	CUSTOMER'S DWG NO.
	SFBS10080FS2-SERIES	

## 1.INDEX

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## 2.Manufacturing Location

China

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#### (1)Features

a)Small Footprint and Low Profile Design:

Footprint: 10.0 mm Max. x 8.0 mm Max. Height:

8.0mm Max.

b)High Power Handling Capability:

Small Copper Loss Ferrite Material with Large

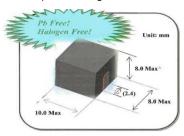
Saturation Magnetic Flux is used

c)Operating Temperature Range:

-40deg. C ~ +125deg.C (Including Self Temp. Rise)

d)Automatic Mounting in Tape&Reel Package

#### Component Image&Dimensions



#### Note:

The Height Dimension of R10L&R12L Types are 8.1mmMax.

#### Applications

Server, BTS, VRM, etc.

#### (2)Part Numbering

 SFBS
 10080
 R10
 L
 F
 S
 2

 A
 B
 C
 D
 E
 F
 G

A: Series name

B: L×W×H dimensions 10.0X8.0X8.0mm max

C: Inductance(µH)

D: Inductance tolerance

E: Core material: Ferrite

F: Standard

G: Material part number

### (3)Characteristics specification table

ASDI Part Number	Inductance (µH)	Tolerance	DCR (mΩ) typ.	Tolerance	Isat (A)typ.	Irms (A)typ.	Status
SFBS10080R10LFS2	0.10	±15%	0.18	±10%	122	70	T.T
SFBS10080R12LFS2	0.12	±15%	0.18	±10%	101	70	T.T
SFBS10080R15LFS2	0.15	±15%	0.18	±10%	79	70	T.T
SFBS10080R18LFS2	0.18	±15%	0.18	±10%	65	70	T.T
SFBS10080R20LFS2	0.20	±15%	0.18	±10%	61	70	T.T
SFBS10080R23LFS2	0.23	±15%	0.18	±10%	51	70	Sim.
SFBS10080R30LFS2	0.30	±15%	0.18	±10%	38	70	Sim.

#### Note:

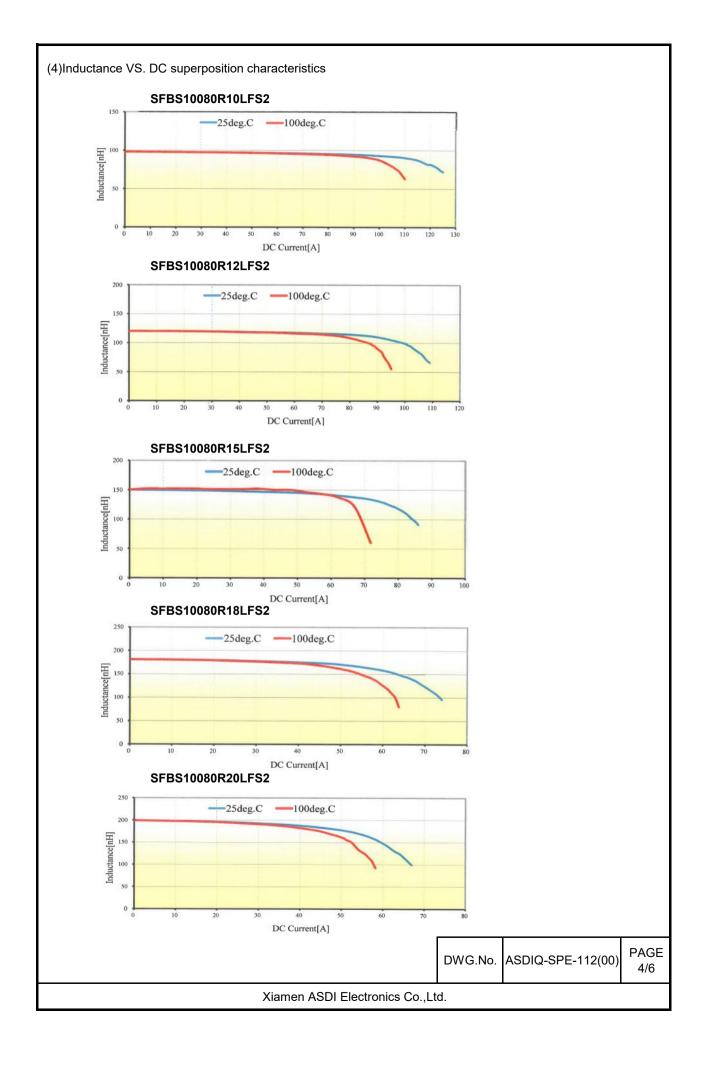
Isat: When based on the inductance change rate (20% below the nominal value, under an environment of  $25^{\circ}\text{C}$ )

Irms: When based on the temperature increase (temperature increase of 40°C by self heating)

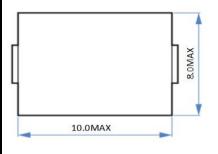
Sim.: Simulation T.T: Tentative

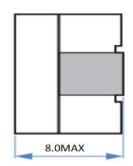
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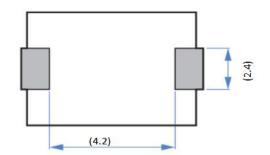
<sup>\*</sup>Rated current: smaller value of either Isat or Irms.



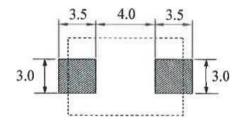
## (5)Shape and dimensions





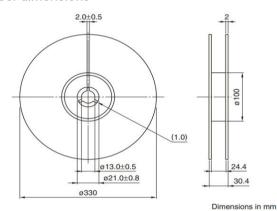


## (6) Recommended land pattern

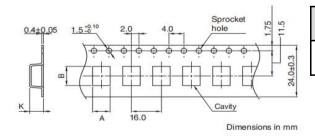


## (7)Packaging style

## 7-1,Reel dimensions



## 7-2, Tape dimensions



Туре	Α	В	K
SFBS10080	(8.2)	(10.2)	(8.2)

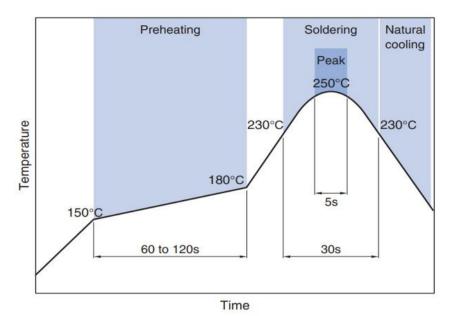
## 7-3, Package quantity

Package quantity	400 pcs/reel

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## (8) Recommended reflow proflie



### (9) Tempertature range

Operating temperature range*	Storage temperature range**	
–40 to +125 °C	–40 to +125°C	

- \* Operating temperature range includes self-temperature rise.
- \*\* The storage temperature range is for after the assembly.

### (10)Note

#### ·Storage Conditions

To maintain the solderability of terminal electrodes:

- 1. ASDI products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 2. Temperature and humidity conditions: Temperature: 5 to 30deg.C, Humidity: 75% Max.
- 3. Recommended products should be used within 12 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- ·Transportation
- 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
- 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

DWG.No.
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