



RF SAW Filter Series – RoHS Compliance

LTE Band 5 system

For Rx Single Type

869~894 MHz Band Working Frequency

P/N: SF11090881B506T

Approval Sheet



Features

- Low loss, Low pass band ripple
- Single to single operation
- No matching network required for operation at 50 Ohm
- Package for <u>Surface</u> <u>Mount</u> <u>Technology</u> (SMT)
- <u>E</u>lectrostatic <u>S</u>ensitive <u>D</u>evice (ESD)
- Ultra small package : (1.1mm × 0.9mm x 0.55mm)
- RoHS Compliance
- <u>M</u>oisture <u>S</u>ensitive <u>L</u>evel 3 (MSL3)

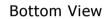
Application

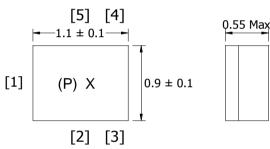
LTE Band 5 system

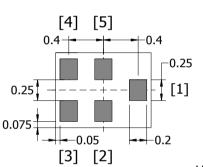
Package Dimensions











Unit : mm

Pin Descriptions

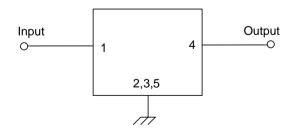
Pin	Description	Pin	Description
[1]	Input	[4]	Output
[2]	GND	[5]	GND
[3]	GND		

Marking Descriptions			
Marking Description			
(P)	Series Number		

Date Code(Year+Month)

Х

Test Circuit



PSA

Approval Sheet

Electrical	Specifications
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Item		Frequency	Specification			Linit
		(MHz)	Min	Тур	Max	Unit
Center frequency		869~894	-	881.5	-	MHz
Insertion loss		869~894	-	1.3	1.8	dB
Pass band ripple		869~894	-	0.3	1.1	dBp-p
	Input	000 004	-	1.6	2.0	-
VSWR	Output	869~894	-	1.6	2.0	-
		1.0 ~ 824	48	54	-	dB
		824 ~ 849	46	51	-	dB
		849 ~ 854	30	41	-	dB
Absolute attenuatio	n	909 ~ 979	20	27	-	dB
		1710 ~1910	40	45	-	dB
		1920 ~ 2500	35	41	-	dB
		2500 ~ 6000	30	36	-	dB
		Input	50		Ohm	
Terminating impeda	ance	Output	50		Ohm	

Note : With no matching network (Ref. testing environment circuit as shown above).

Absolute Maximum Ratings

Item	Rating	Unit
DC permissive voltage	0	V
Maximum input power	10	dBm
Operating temperature range	-40 ~ +85	°C
Storage temperature range	-40 ~ +85	°C

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Typical Frequency Response

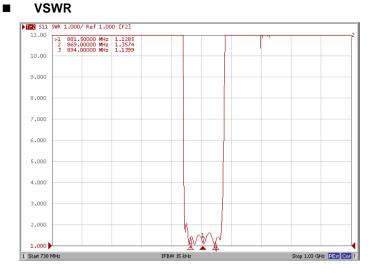


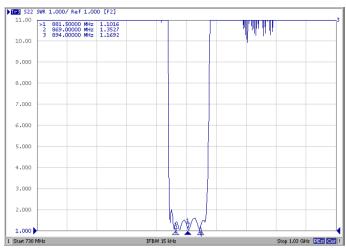




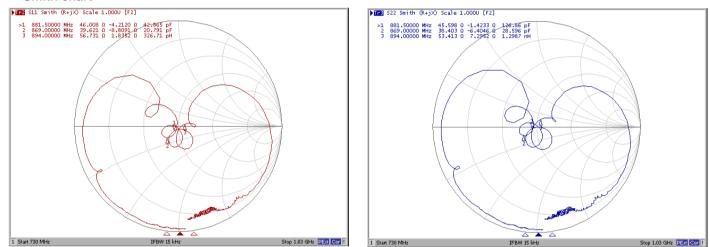
Approval Sheet





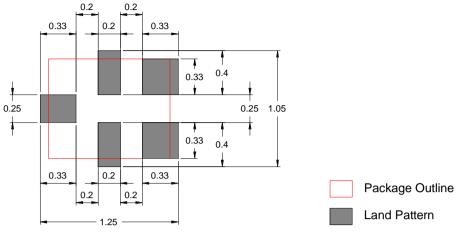


Smith chart



Approval Sheet Solder Land Pattern





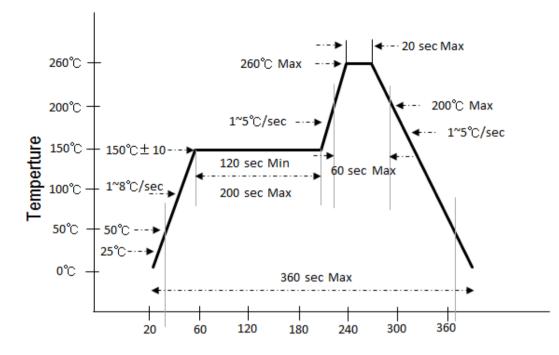
Unit : mm

Reliability Test

Test	Procedure/Test method	Requirements
	*Frequency : 10Hz ~ 55Hz	
	*Total amplitude : 1.5mm	
Vibration	*Sweep period : 1.0 minute	
	*Vibration directions : 3 mutually perpendicular	
	*Duration : 2 hours / direct	
	*Height:1.0 m	
Drop test	*Test surface : Rigid surface of concrete or steel	
	*Times : 10 times	
	*Temperature : +70°C± 2°C	After the test, specimen would be kept
Static humidity	*Relative humidity : 90%	at room temperature for 2 hours.
	*Duration : 96 hours	
	1. 30 minutes at -40°C,	And then the measured values shall
Temperature cycling	2. 30 minutes at +85°C,	fulfill the Electrical Specifications.
	*cycle time : 100 times	
	*Exposure temperature : 85°C± 5°C	
High temperature exposure	*Exposure duration : 240 hours	
	*Exposure temperature : -40°C± 5°C	
Low temperature exposure	*Exposure duration : 240 hours	
Defiere estatering	*Temperature / Duration : 275°C / 10sec	
Reflow soldering	*Total time : 6 minute (IR-reflow)	



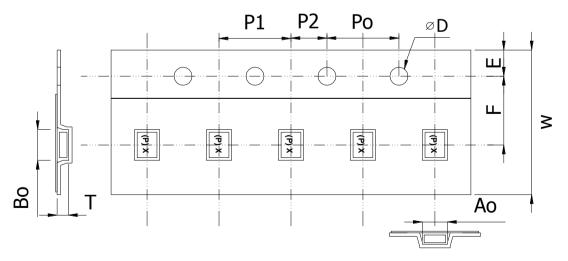




Ordering Code

SF	1109	0881	B5	06	Т
Series	Dimension code	Frequency	Application	Serial Number	Packing
SF : SAW Filter	Per2 digits of Length, Width 1109= Length 1.1mm Width 0.9mm	0881:Center Freq (881.5MHz)	B5:LTE Band5	Design Code	T : Reeled

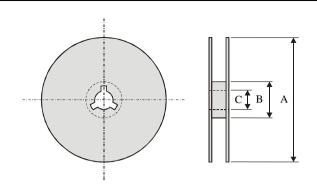
Packing



Plastic Tape specifications

Index	Ao	Во	ΦD	Т	W
Dimension (mm)	1.10 ± 0.10	$\textbf{1.3}\pm\textbf{0.10}$	1.55 ± 0.05	$\textbf{0.75} \pm \textbf{0.10}$	8.0 ± 0.20
Index	E	F	Po	P1	P2
Dimension (mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.0 ± 0.10

ASC_SF11090881B506T_V03



Index	А	В	С
Dimension (mm)	Ф180.0 +0/-1.5	$\Phi 66.0\pm 0.5$	$\Phi 13.0\pm 0.2$

Note : The product shall be packed properly not to be damaged during transportation and storage. Taping Quantity : 5000 pieces per 7"reel

Caution Of Handling

Limitation of Applications

Please contact us before using our products for the applications listed below which require especially high reliability for the prevention of defects, which might directly cause damage to the third party's life, body or property.

- (1) Aircraft equipment
- (2) Aerospace equipment
- (3) Undersea equipment
- (4) Medical equipment
- (5) Disaster prevention / crime prevention equipment
- (6) Traffic signal equipment
- (7) Transportation equipment (vehicles, trains, ships, etc.)
- (8) Applications of similar complexity and /or reliability requirements to the applications listed in the above.

Storage Condition

- (1) Products should be used in 6 months from the day of WALSIN outgoing inspection, which can be confirmed.
- (2) Storage environment condition.
 - Products should be storage in the warehouse on the following conditions.
 - Temperature : -10 to +40°C
 - Humidity : 30 to 70% relative humidity
 - Don't keep products in corrosive gases such as sulfur. Chlorine gas or acid or it may cause oxidization of electrode, resulting in poor solderability.
 - Products should be storage on the palette for the prevention of the influence from humidity, dust and son on.
 - Products should be storage in the warehouse without heat shock, vibration, direct sunlight and so on.
 - Products should be storage under the airtight packaged condition.

Important Notes

- (1) This device should not be used in any type of fluid such as water, oil, organic solvent, etc.
- (2) Cleaning agent isopropyl alcohol and ethyl alcohol can be used.
- (3) As rapid temperature change for cleaning after reflow soldering might be a cause of degradation or destruction, clean this component after confirming that temperature of this component goes down to room temperature.
- (4) As ultrasonic vibration might be a cause of degradation or destruction, do not use ultrasonic cleaning.
- (5) This device follows JEDEC standards for moisture classifications. The following this device is classified as <u>Moisture Sensitive Level 3</u> This device is moisture sensitive and need to be handled within proper MSL 3 guidelines to avoid damage from moisture absorption and exposure to solder reflow temperatures that can result in yield and reliability degradation
- (6) This is an <u>Electrostatic Sensitive Device.</u>Please avoid static voltage during operation and storage.
- (7) Sudden change of temperature shall be avoided, deterioration of the characteristics can occur.
- (8) If any malfunction due to designing or manufacturing which is out of specification occurs within one year after the products have been delivered, the maker should exchange the defective products.



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