



RF SAW Filter Series – RoHS Compliance

LTE Band 8 system

For Rx Single Type

925~960 MHz Band Working Frequency

P/N: SF11090942B805T

Approval Sheet



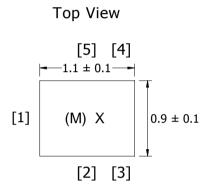
Features

- 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>Moisture</u> <u>Sensitive</u> <u>Level</u> 3 (MSL3)

Application

LTE Band 8 system

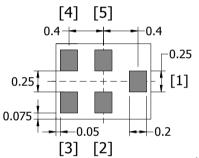
Package Dimensions





0.55 Max





Marking Descriptions Marking

> (M) X

Unit : mm

Description

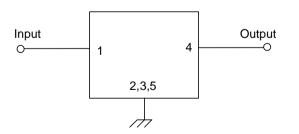
Date Code(Year+Month)

Series Number

Pin Descriptions

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

Test Circuit



Approval Sheet EI/

ectrical Specifications	
Item	Fre (I
Center frequency	-

Item		Frequency	Specification			Unit
		(MHz)	Min	Тур	Max	Unit
Center frequency		-	-	942.5	-	MHz
Insertion loss		925 ~ 960	-	2.0	3.0	dB
Pass band ripple		925 ~ 960	-	1.2	2.3	dBp-p
	Input	925 ~ 960	-	1.9	2.3	-
VSWR	Output	923 ~ 960	-	1.9	2.3	-
		880 ~ 915	46	49	-	dB
		980 ~ 1588	15	25	-	dB
		1559 ~ 1607	40	55	-	dB
		1850 ~ 1920	35	48	-	dB
		2400 ~ 2500	30	40	-	dB
		2775 ~ 2880	28	37	-	dB
Absolute attenuation	1	3700 ~ 3840	25	33	-	dB
		4625 ~ 4800	20	34	-	dB
		4900 ~ 5950	18	34	-	dB
		5550 ~ 5725	18	36	-	dB
		6475 ~ 6720	15	32	-	dB
		7400 ~ 7680	15	25	-	dB
To any in a time income along		Input	50		Ohm	
Terminating impeda	nce	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

Approval Sheet



Typical Frequency Response

■ Input-Output insertion

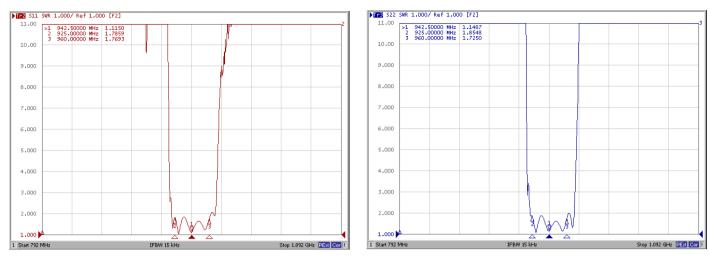




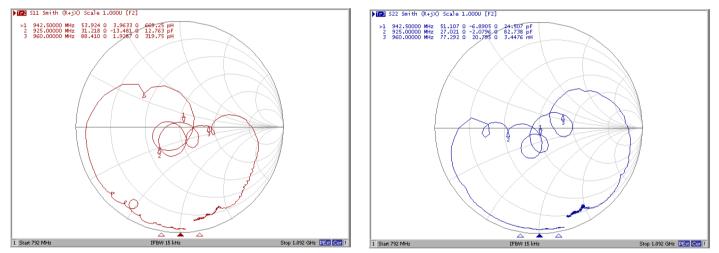
PSA

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VSWR

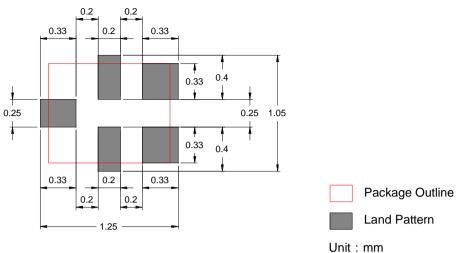


Smith Chart



Approval Sheet





Reliability Test

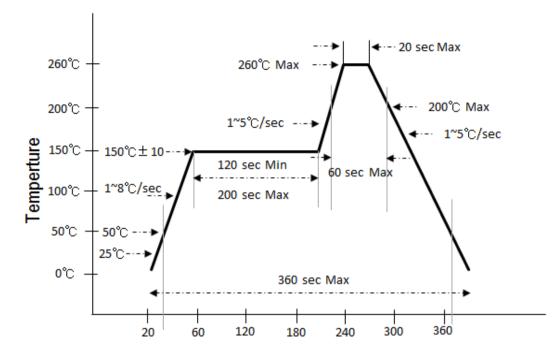
Test	Procedure/Test method	Requirements
	*Frequency:10Hz~55Hz	
	*Total amplitude : 1.5mm	
Vibration	*Sweep period : 1.0 minute	
	*Vibration directions : 3 mutually perpendicular	
	*Duration : 2 hours / direct	
	*Height:1.0 m	
Drop test	*Test surface : Rigid surface of concrete or steel	
	*Times : 10 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	
Deflow coldering	*Temperature / Duration : 275°C / 10sec	
Reflow soldering	*Total time : 6 minute (IR-reflow)	

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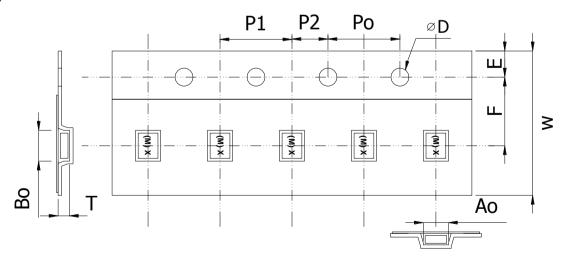




Ordering Code

SF	1109	942	B8	05	Т
Series	Dimension code	Frequency	Application	Serial Number	Packing
SF : SAW Filter	Per2 digits of Length, Width 1109= Length 1.1mm Width 0.9mm	942:Center Freq (942MHz)	B8 : LTE Band 8	Design Code	T : Reeled

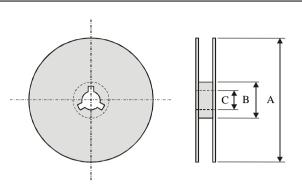
Packing



Plastic Tape specifications

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

ASC_SF11090942B805T_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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