



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Product Description: Dual SAW Filter 433.2/434.64 MHz SMD 3.8x3.8 mm

(This part is compliant with AEC-Q200)

TST Part No.: TF0097A

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Michael Yang *Michael*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2018/07/09

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



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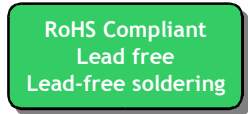
Dual SAW Diplexer Filter 433.2/434.64 MHz

MODEL NO.:TF0097A

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 0 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. AEC-Q200
- 6.



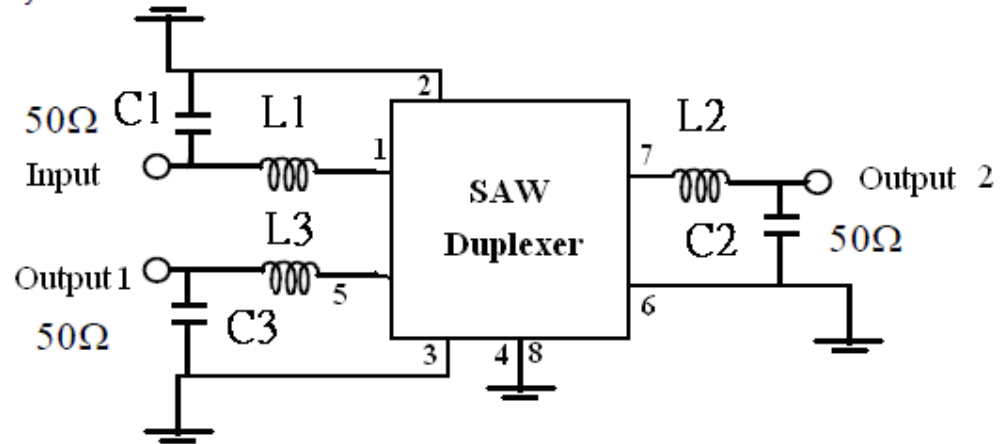
Electrostatic Sensitive Device (ESD)

B_1. ELECTRICAL CHARACTERISTICS:

Pass Band I	Unit	Min.	Type.	Max.
Center frequency Fc	MHz	-	433.2	-
Insertion loss (433.10~433.30 MHz) IL	dB	-	4	4.5
Amplitude Ripple (433.10~433.30 MHz)	dB	-	1	1.5
VSWR (433.10~433.30 MHz)			2	2.3
Attenuation (Reference level from 0 dB)				
434.54 ~ 434.74 MHz	dB	25	30	-
Fc + 2.4 MHz	dB	25	30	-
Fc - 2.4 MHz	dB	25	30	-
Pass Band II	Unit	Min.	Type.	Max.
Center frequency Fc	MHz	-	434.64	-
Insertion loss (434.54~434.74 MHz) IL	dB	-	4	4.5
Amplitude Ripple (434.54~434.74 MHz)	dB	-	1	1.5
VSWR (434.54~434.74 MHz)			2	2.3
Attenuation (Reference level from 0 dB)				
433.10 ~ 433.30 MHz	dB	25	30	-
Fc + 2.4 MHz	dB	30	35	-
Fc - 2.4 MHz	dB	30	35	-

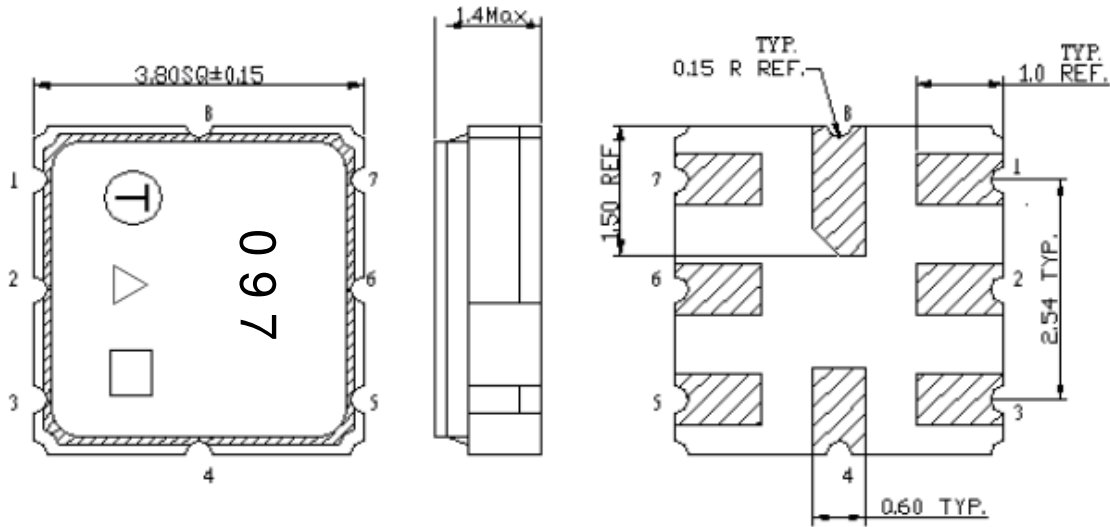
C. MEASUREMENT CIRCUIT:

HP Network analyzer



L1 : 68nH; L2 : 82nH ; L3 : 82nH ;
 C1 : 8pF ; C2 : 5pF ; C3 : 5pF ;

D. OUTLINE DRAWING:



Electrical Connections

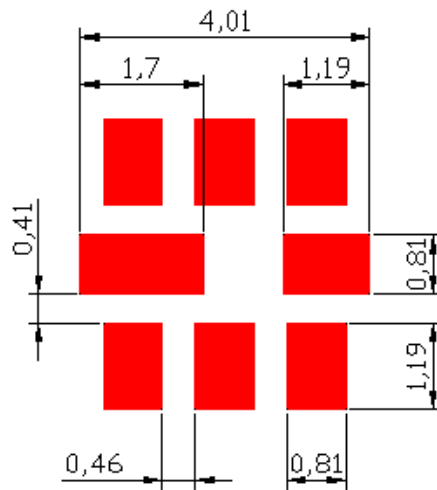
Pin	Connection
1	Input
2,3,6	RF Ground
4,8	Case Ground
5	Band 1 Output
7	Band 2 Output
Dot Indicates Pin 1	

□ : Week Code(Follow the table from planner each year)

△ : Product / Year Code

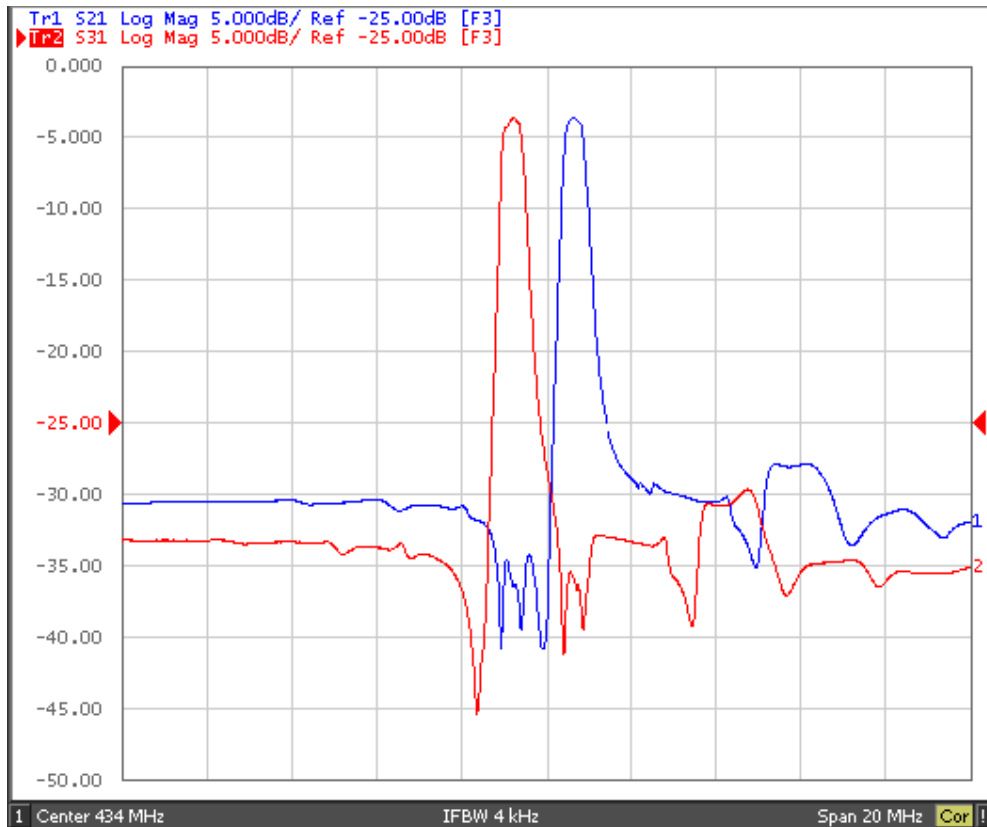
Year	2013 2009	2014 2010	2015 2011	2016 2012
Product Code	F	f	E	f

E. PCB Footprint:

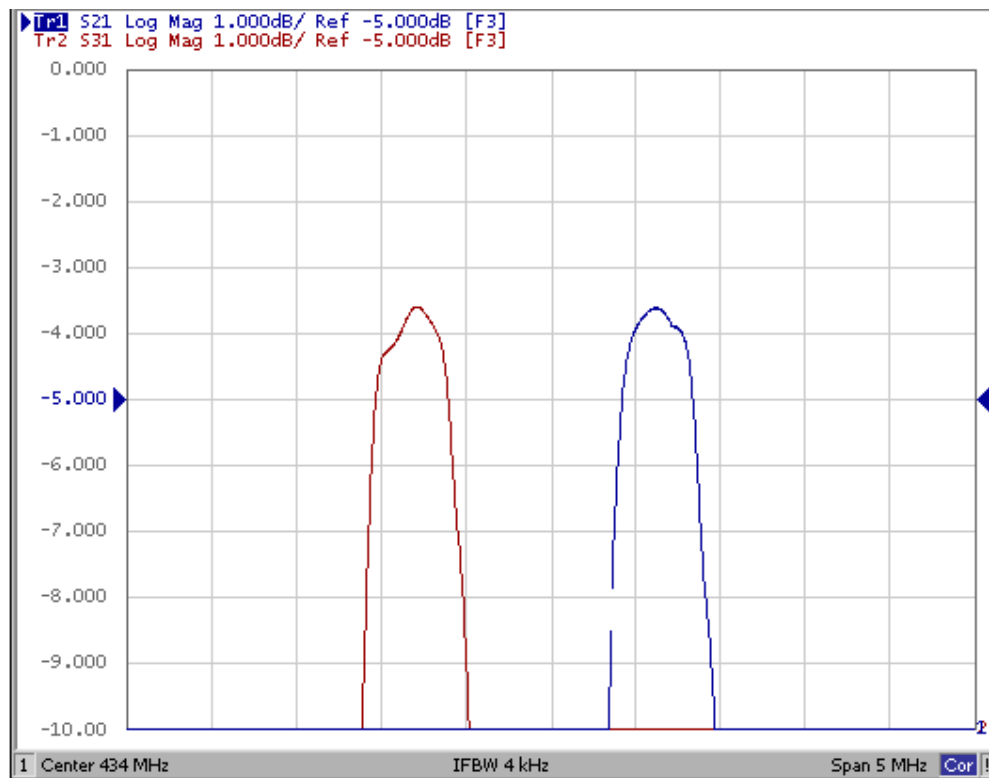


F. Frequency Characteristics :

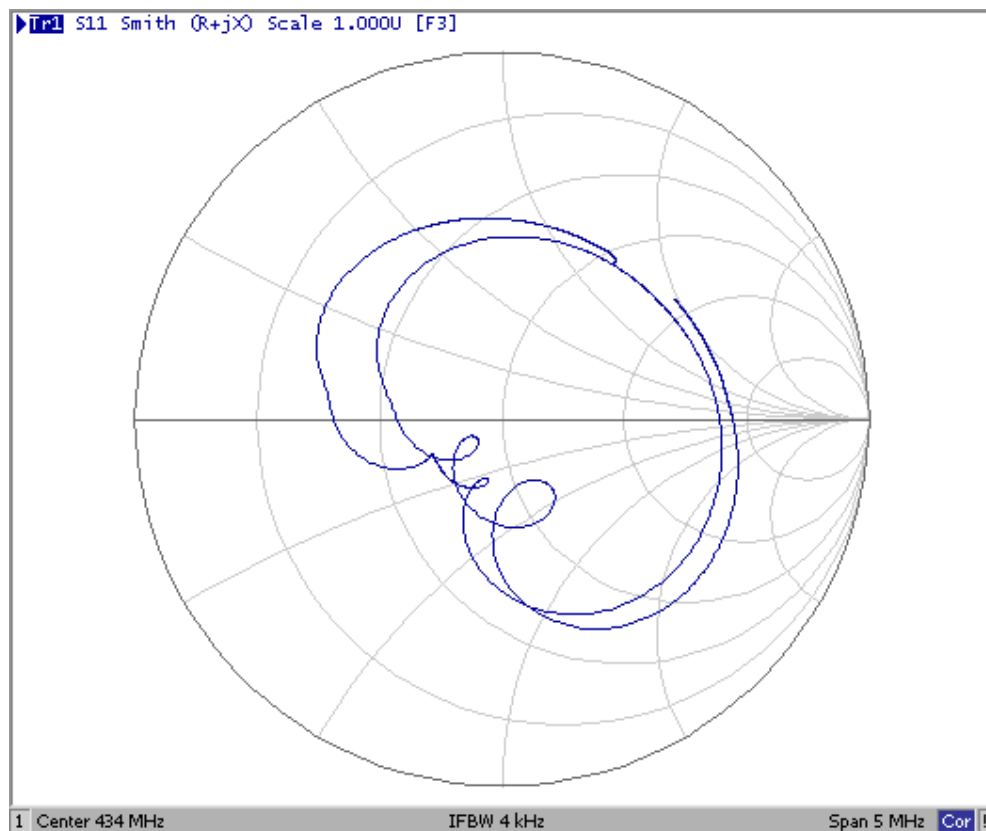
S21 : Span 20MHz



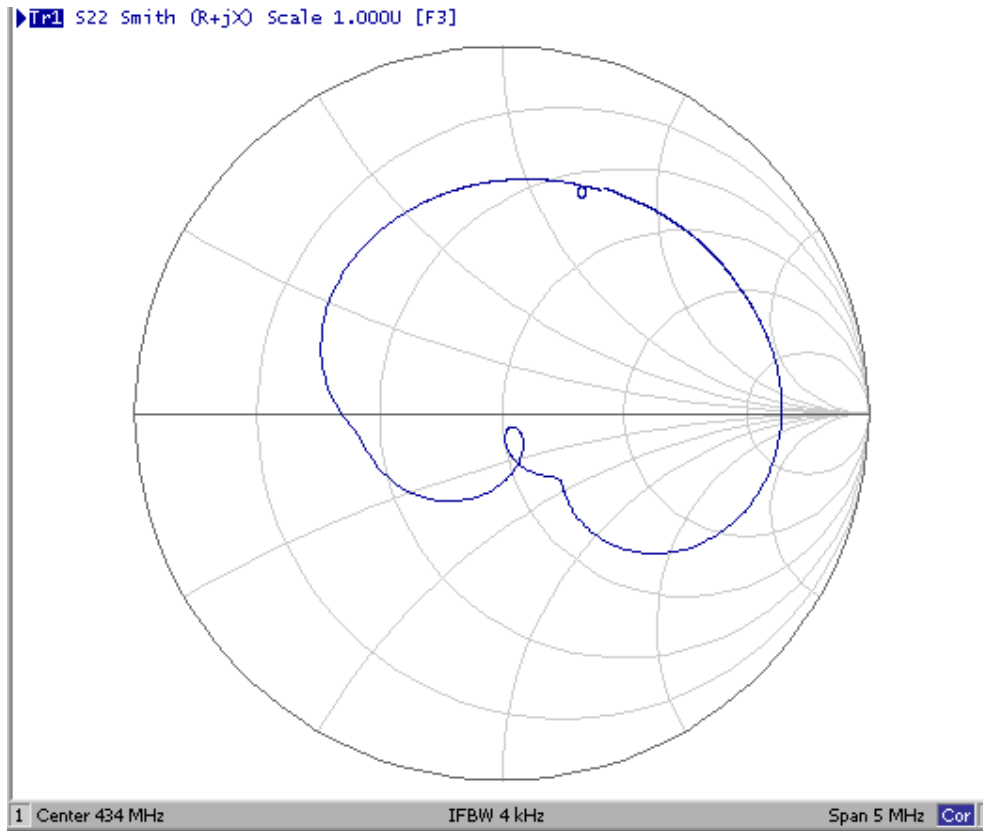
S21 : Span 5MHz



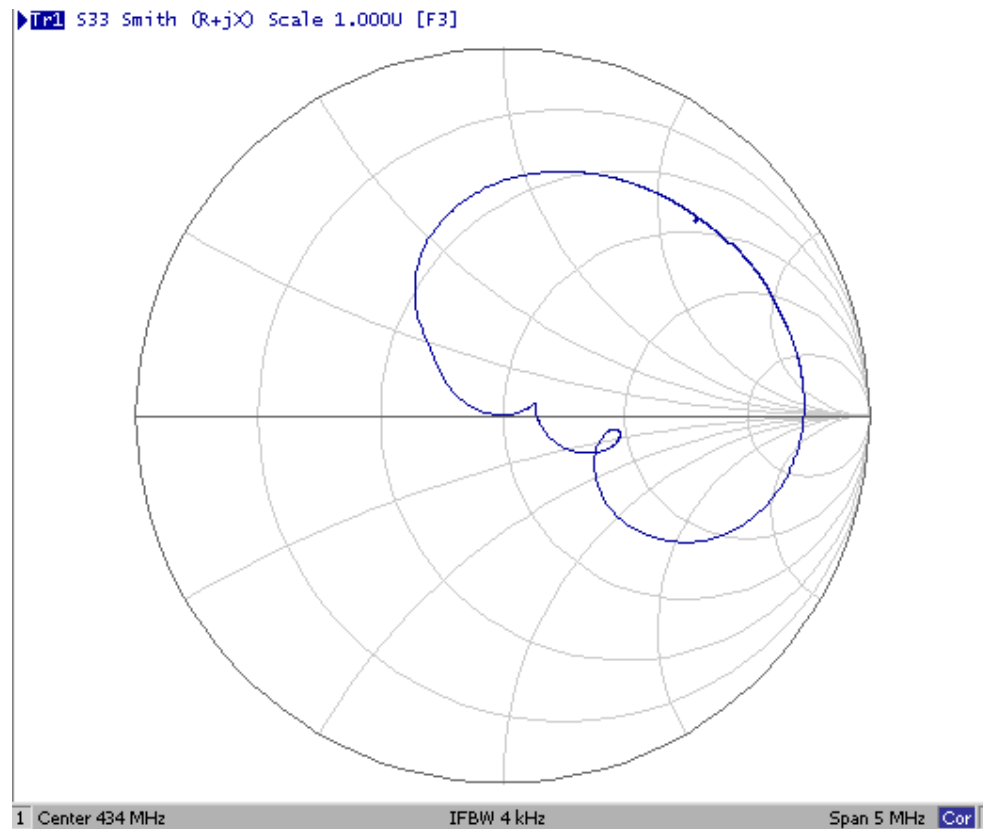
S11(I/P)



S22(O/P_2)



S33(O/P_1)



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 245~260°C peak (min. 10sec).
4. Time : 2 times.

