



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: Filter 2605 / 1900MHz 100/40MHz BW Band41/ Band39 Rx SMD1.5X1.1mm

TST Parts No.: TE0158A

Customer Part No.: _____

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

Checked by: _____ Anne Chen *Anne Chen*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2020, 02, 15

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 change



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SAW Filter 2605/1900MHz 100/40MHz BW Band41/ Band39 Rx SMD1.5X1.1mm

MODEL NO.: TE0158A

REV. No.: 1.0

A. MAXIMUM RATING:

1. Input power : 10dBm
2. Maximum DC Voltage: 5V
3. Operating temperature range: -30 °C to +85 °C
4. Storage temperature range: -40 °C to +100 °C
5. Moisture Sensitivity Level: Level 1 (MSL 1)
6. ESD 50V(MM) 100V(HBM)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

(Filter1)

Parameters Description		Unit	Minimum	Typical	Maximum	Note
Insertion Loss(*1)	2555 ~ 2655 MHz	dB	-	2.2	3.1	
Ripple	2555 ~ 2655 MHz	dB		0.5	2.0	
VSWR	Input	-	-	1.4	2.0	
	Output	-	-	1.6	2.0	
Attenuation:						
50 ~ 920 MHz		dB	30	45	-	-
920 ~ 1785 MHz		dB	21	29	-	-
1880 ~ 1920 MHz		dB	22	28	-	-
2401 ~ 2483 MHz		dB	25	30	-	-
4900 ~ 5900 MHz		dB	20	26	-	-
5110 ~ 5310 MHz		dB	20	27	-	-

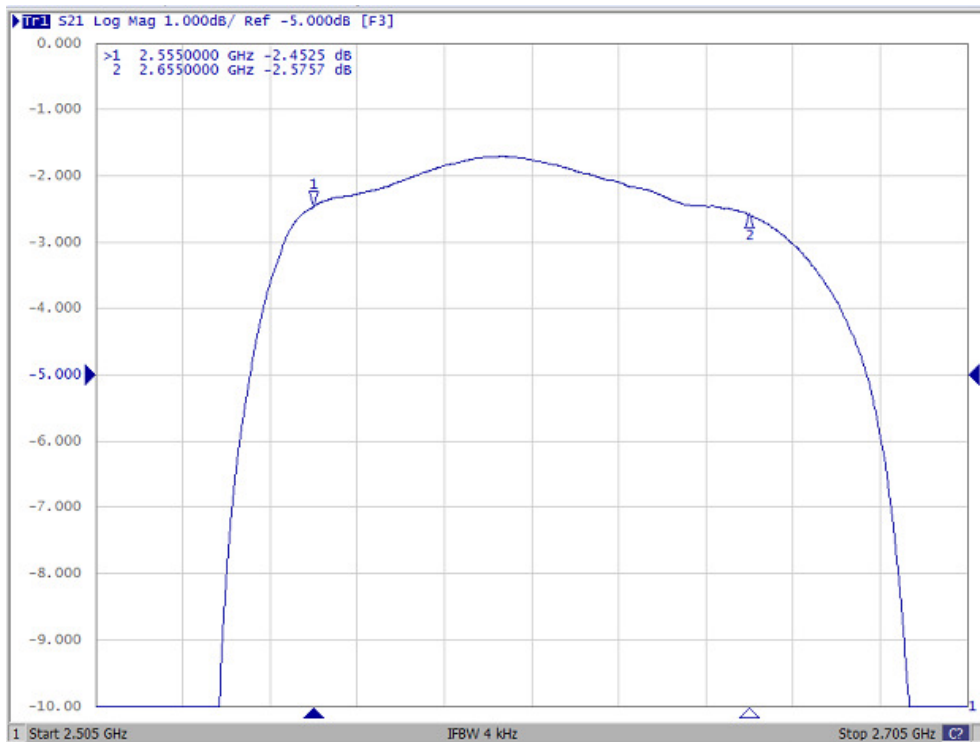
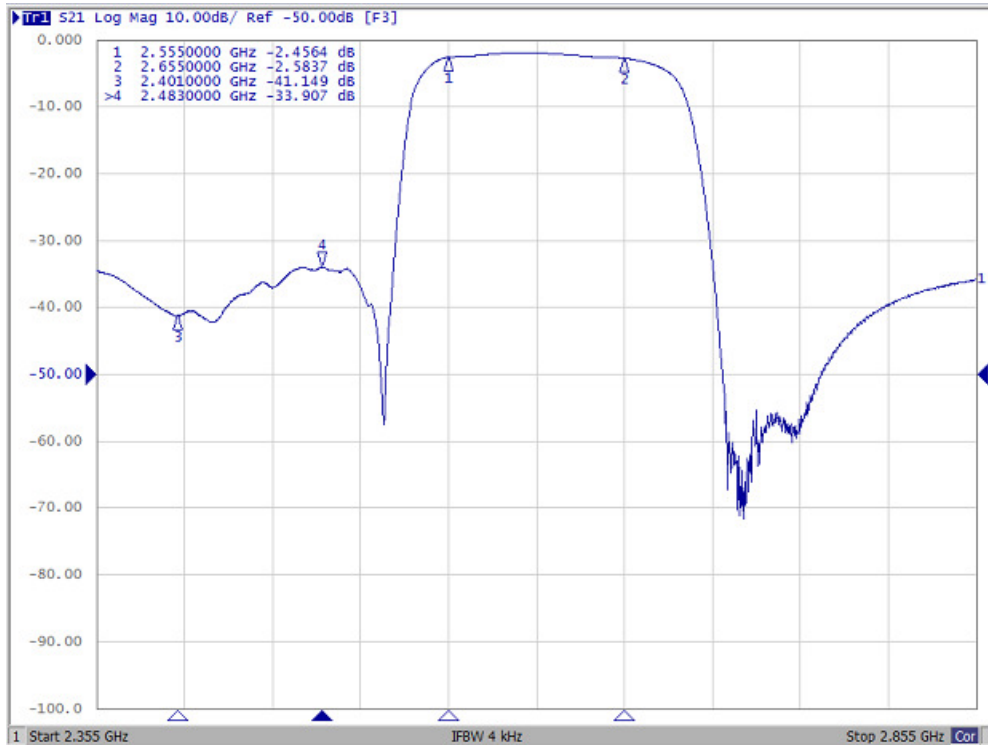
(*1) Specification of insertion loss excludes loss that comes from the test board.

(Filter2)

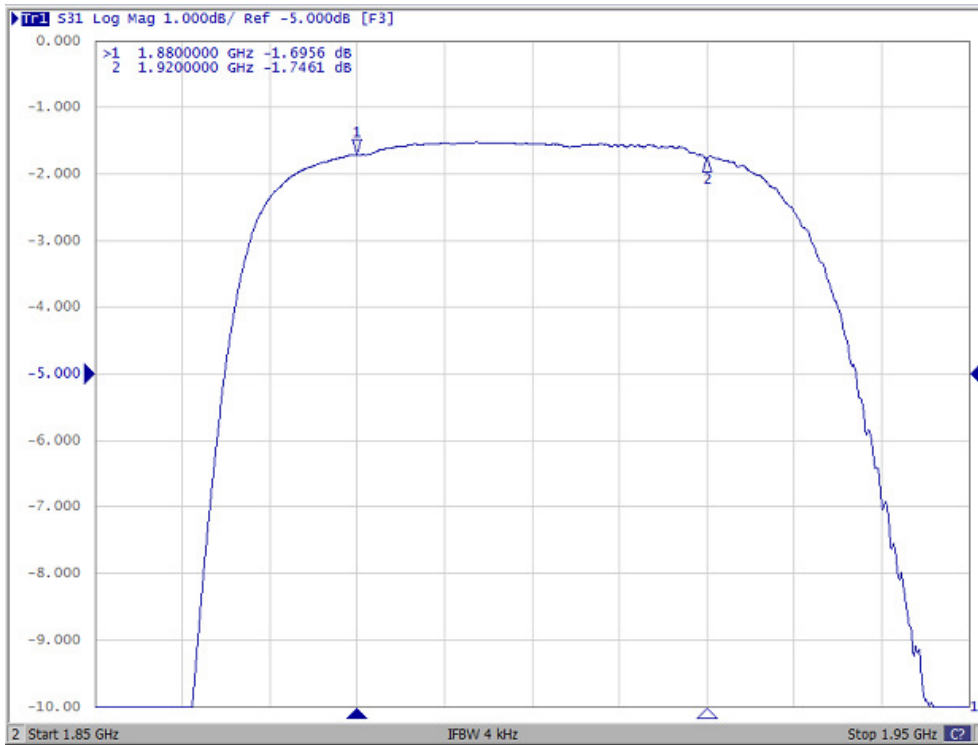
Parameters Description		Unit	Minimum	Typical	Maximum	Note
Insertion Loss(*1)	1880 ~ 1920 MHz	dB	-	1.3	1.9	
Ripple	1880 ~ 1920 MHz	dB	-	0.3	1.2	
VSWR	Input	1880 ~ 1920 MHz	-	-	1.5	2.0
	Output		-	-	1.3	2.0
Attenuation:						
50 ~ 920 MHz		dB	30	42	-	-
1500 ~ 1680 MHz		dB	25	30	-	-
1710 ~ 1780 MHz		dB	25	30	-	-
2401 ~ 2483 MHz		dB	28	33	-	
2555 ~ 2655 MHz		dB	25	34	-	-
3760 ~ 3480 MHz		dB	25	44	-	-
4900 ~ 5000 MHz		dB	15	29	-	-

(*1) Specification of insertion loss excludes loss that comes from the test board.

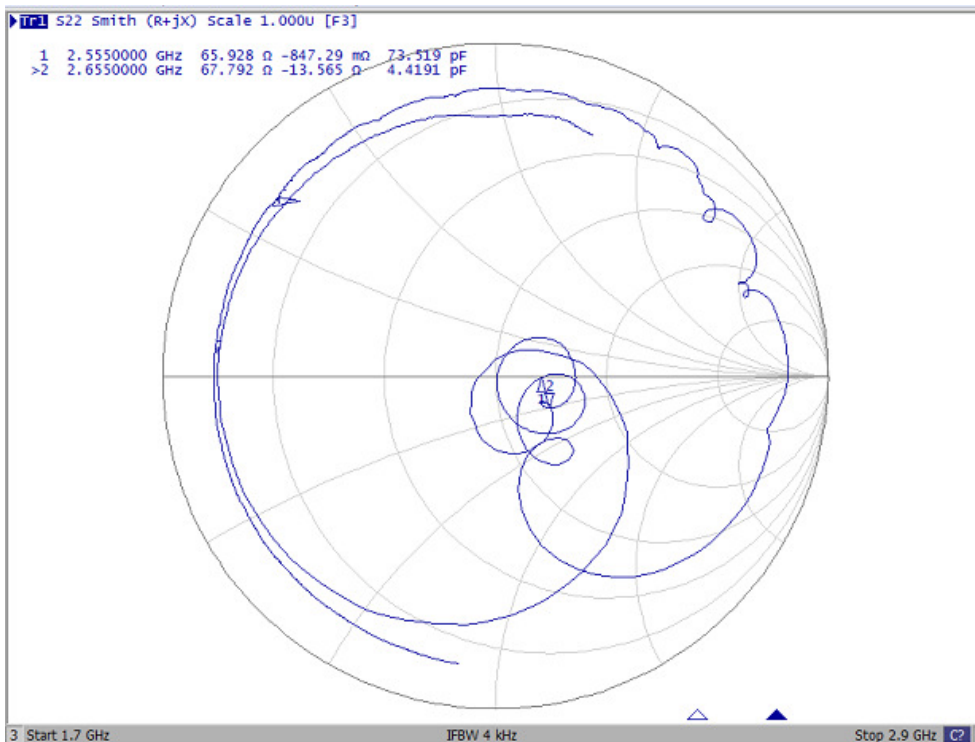
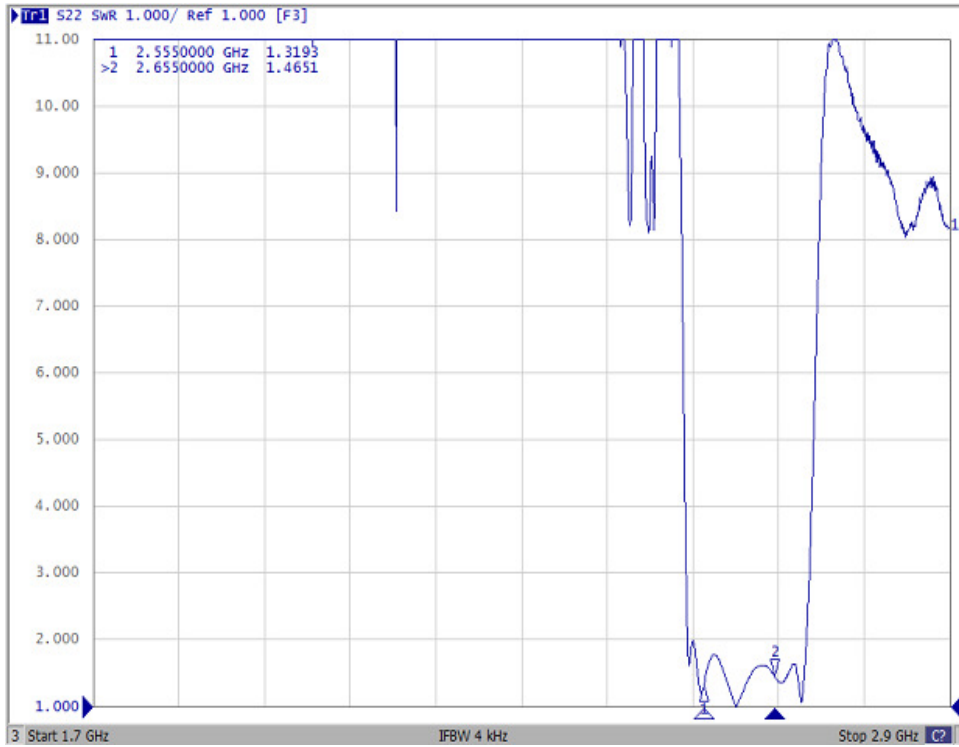
C. Frequency Characteristics:
Passband (Filter1)



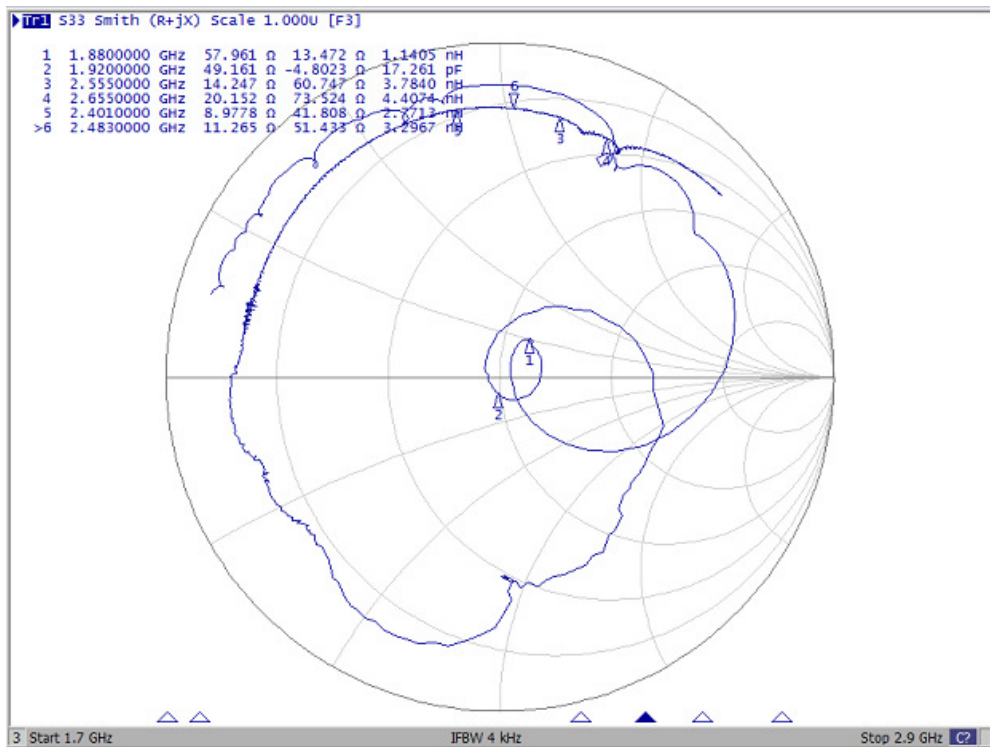
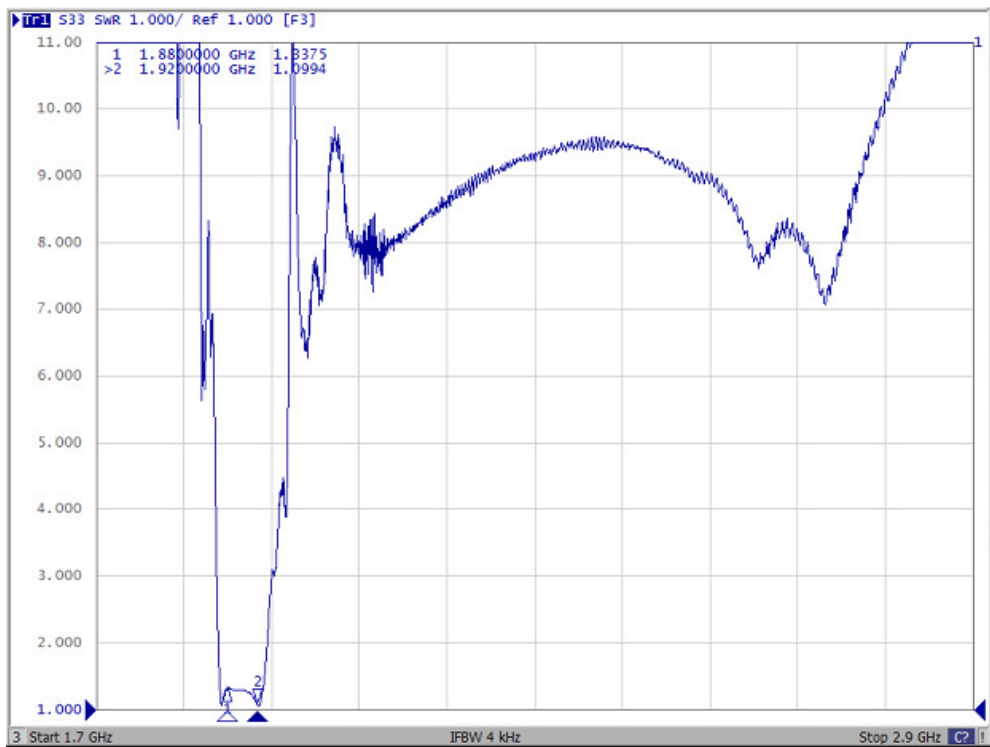
Passband (Filter2)



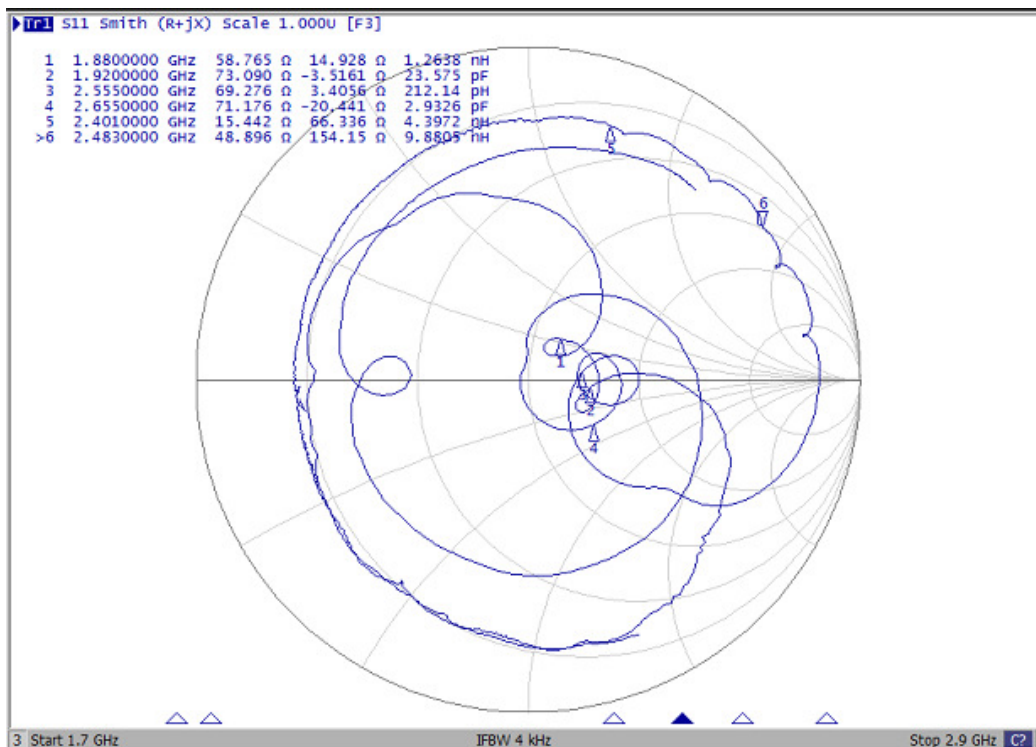
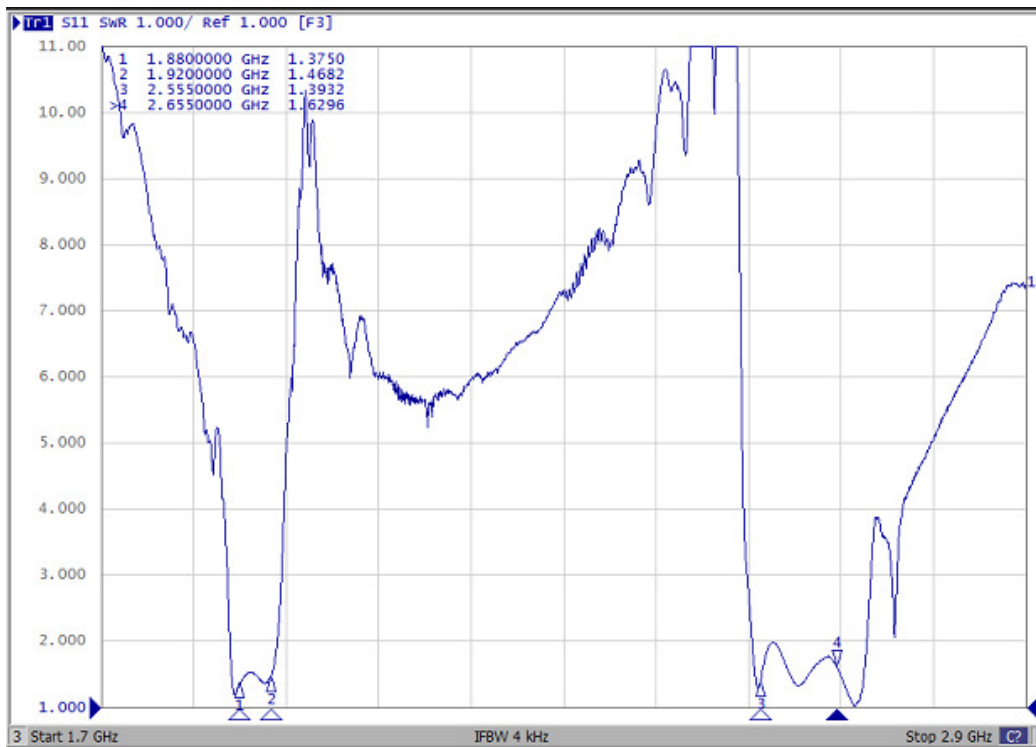
Output Port (Filter1)



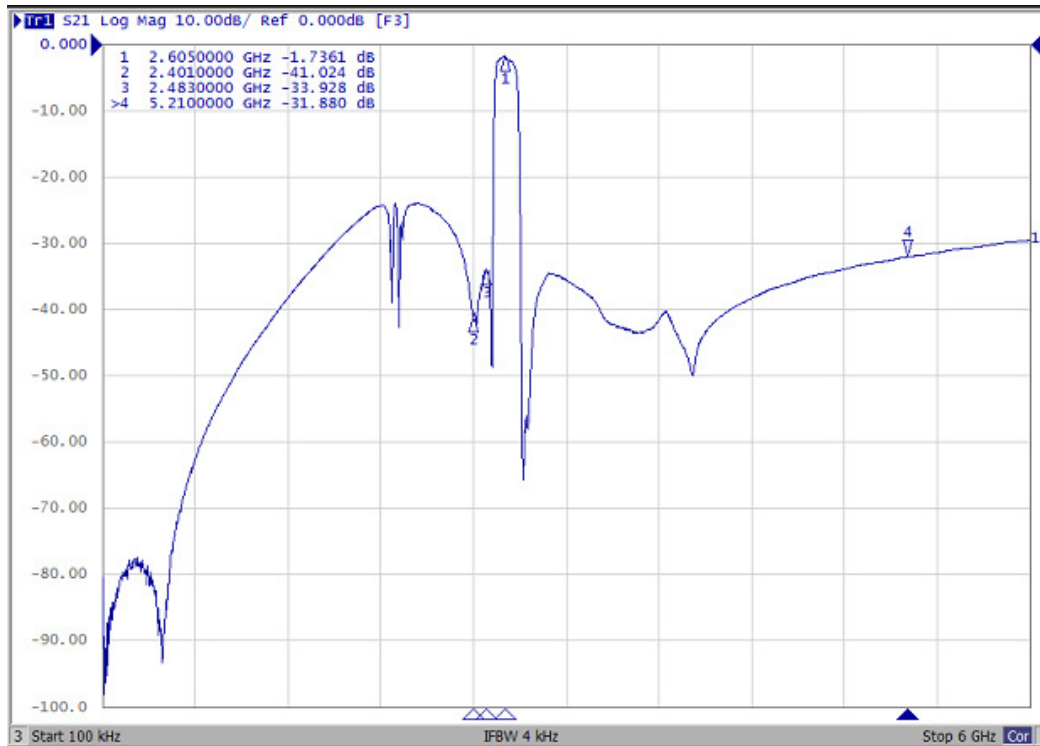
Output Port (Filter2)



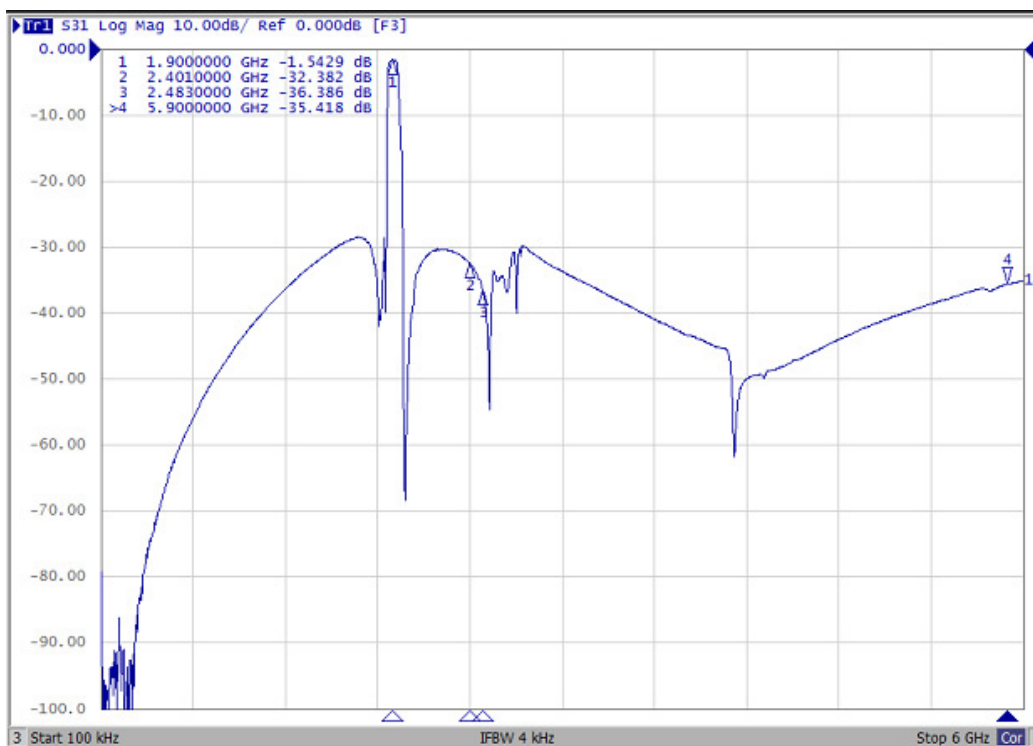
Input Port



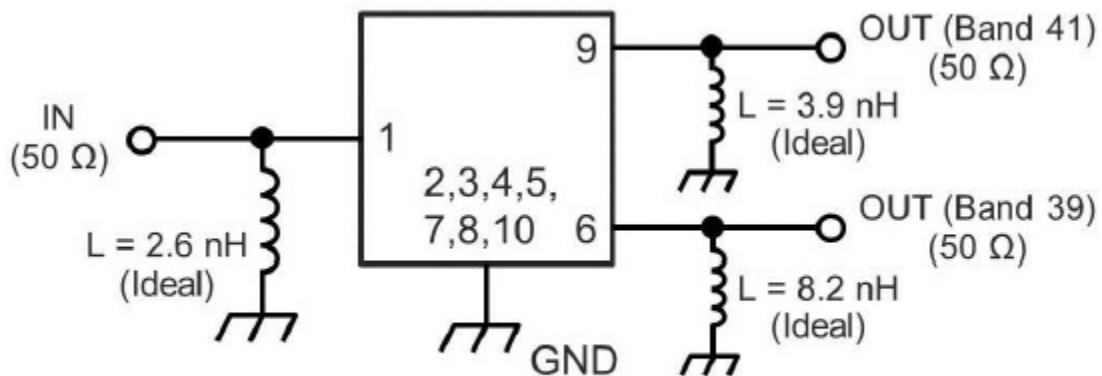
Wide span (Filter1)



Wide span (Filter2)

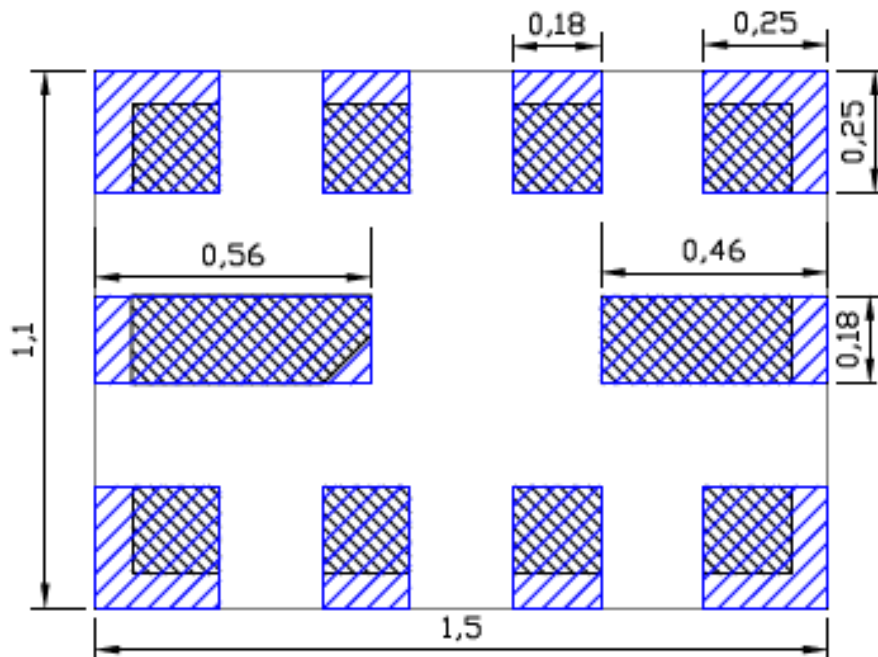


D. MEASUREMENT CIRCUIT:

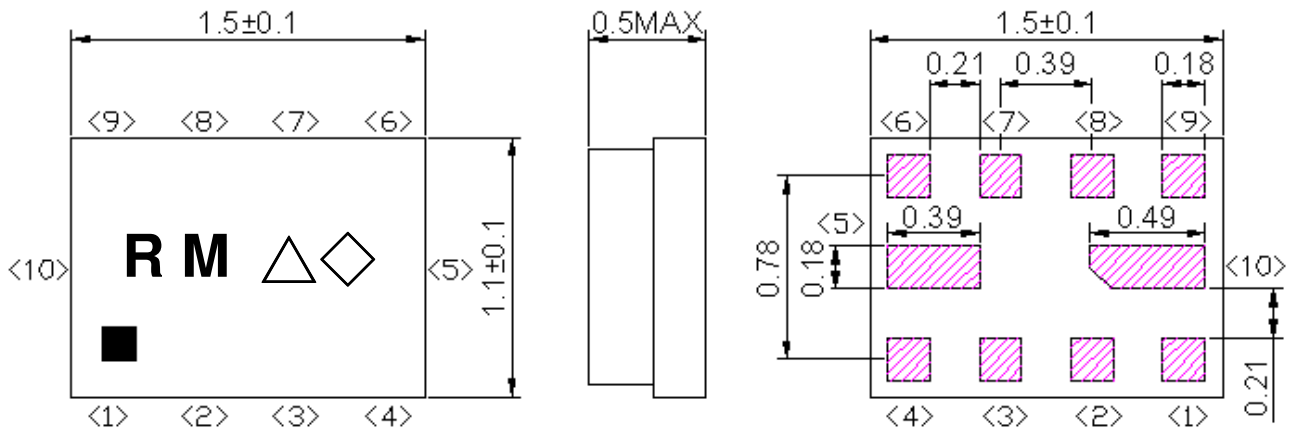


1 to 10 : Pin No.

D. FOOTPRINT:



E.OUTLINE DRAWING:



Not Specified Tolerance : ± 0.10 mm

Coplanarity : 0.1 mm max.

A to H : Pin No.

Unit : mm

Ma

Marking name : **RM**

△: Date code(2020 May → s ,....., 2023 Dec→m.)

◇◇: Lot Code.

Product Date Code. Follow below table. (4-year cycle)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2020	n	p	q	r	s	t	u	v	w	x	y	z
2021	A	B	C	D	E	F	G	H	J	K	L	M
2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2023	a	b	c	d	e	f	g	h	j	k	l	m

Pin assignment

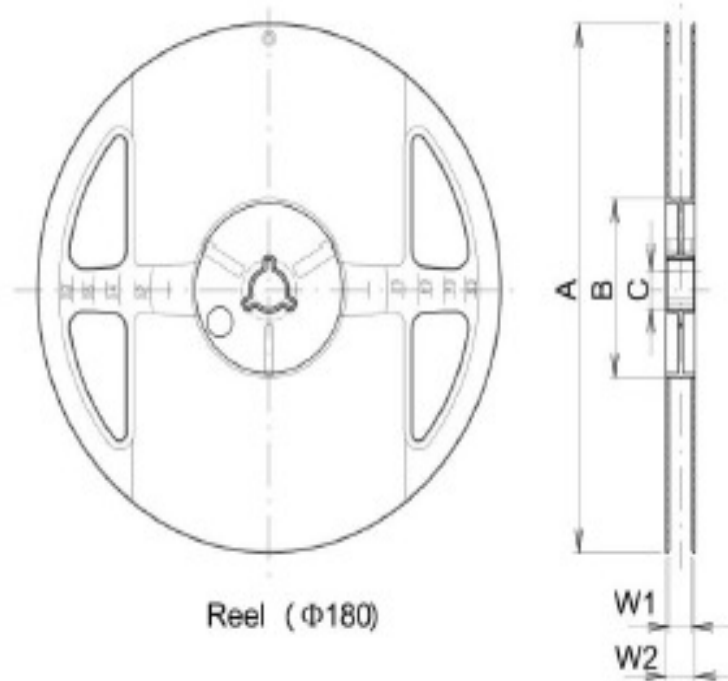
Pin No.	Pin name	Description
1	In	Common Input
2	GND	Ground
3	GND	Ground
4	GND	Ground
5	GND	Ground
6	Out(Filter2)	Filter2 Output
7	GND	Ground
8	GND	Ground
9	Out(Filter1)	Filter1 Output
10	GND	Ground

Filter No.	Passband(MHz)	System
1	2555 ~ 2655	Band41
2	1880 ~ 1920	Band39

F. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)

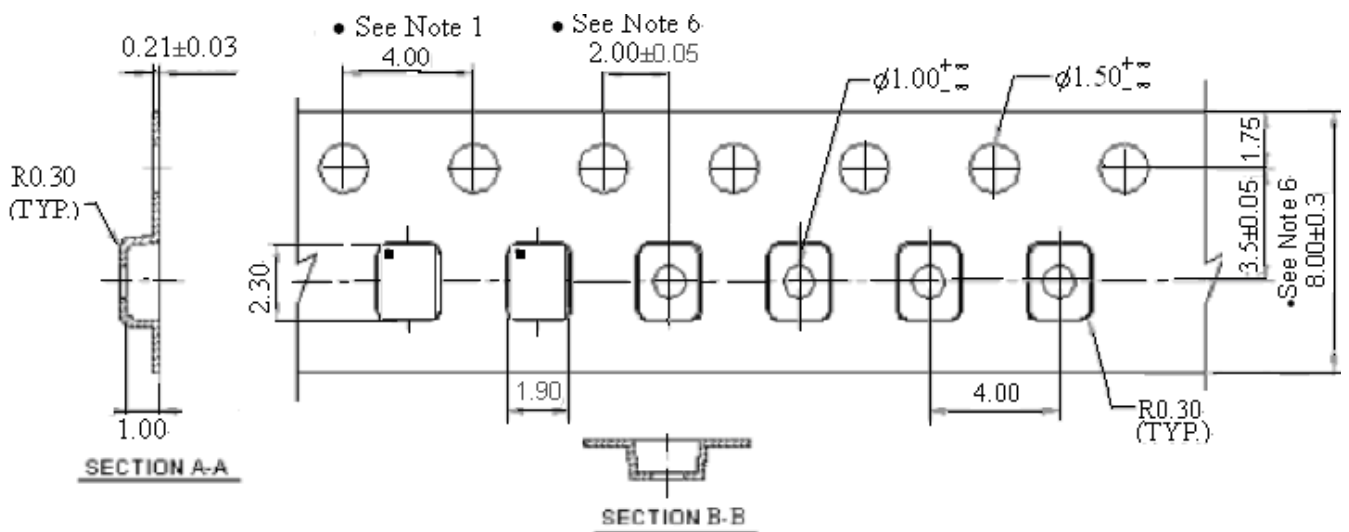


Reel (Φ180)

Unit : mm

Series	Code	Quantity	A	B	C	W1	W2
CSSD1511	J	5000 pcs	180.0 +0.0/-1.5	60.0 +1.0/-0.0	13.0 ±0.2	9.0 +1.0/-0.0	11.4 ±1.0

2.TAPE DIMENSION



G. 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 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

