



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

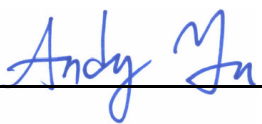
Product Description: SAW Filter 2155 MHz 90MHz BW Band66 Rx SMD 1.1X0.9 mm

TST Part No.: TA2473B (This part is compliant by AEC-Q200)

Customer Part No.: _____

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

Checked by: _____ Anne Chen 

Approved by: _____ Andy Yu 

Date: _____ 2019/12/13

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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SAW Filter 2155MHz 90 MHz BW SMD1.1x0.9mm

MODEL NO.:TA2473B

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 15dBm
2. DC Voltage : 5V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -40℃ to +100℃
5. Moisture Sensitivity Level: Level 1
6. ESD 50V(MM) 100V(HBM)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

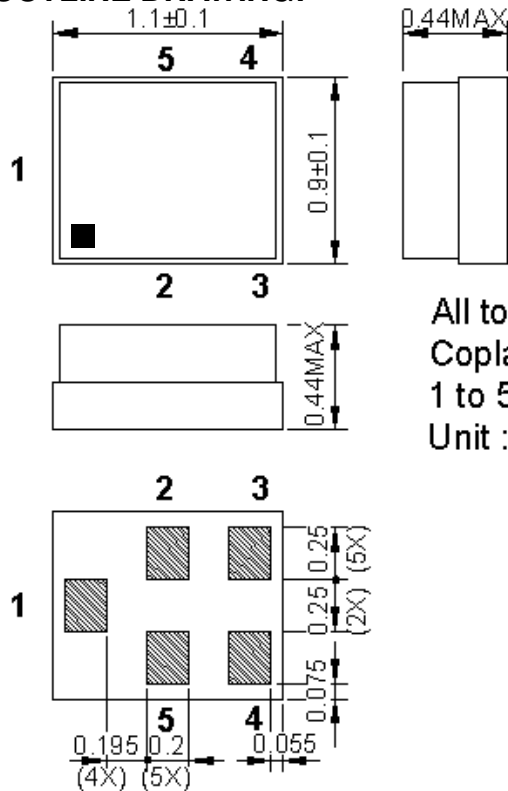
Terminating source impedance(Unbalanced) : $Z_s = 50//4.7nH \ \Omega$

Terminating load impedance(Unbalanced) : $Z_L = 50//3.9nH \ \Omega$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	2155	-	-
Insertion Loss (2110~2200 MHz) IL	dB(*1)	-	1.7	2.3	-30℃ ~ +85℃
Insertion Loss (2110~2200 MHz) IL	dB(*1)	-	1.7	2.8	-
Amplitude ripple (2110~2200 MHz)	dB	-	0.7	1.5	-30℃ ~ +85℃
Amplitude ripple (2110~2200 MHz)	dB	-	0.7	2.0	-
VSWR Input(2110~2200 MHz)		-	1.5	2.2	-
VSWR Output (2110~2200 MHz)		-	1.5	2.7	-
Attenuation (reference level from 0 dB)					
1710 ~ 1780 MHz	dB	42	49	-	-
1920 ~ 2010 MHz	dB	40	45	-	-30℃ ~ +85℃
1920 ~ 2010 MHz	dB	35	45	-	-
2400 ~ 2500 MHz	dB	30	36	-	-
3820 ~ 3980 MHz	dB	30	36	-	-
4900 ~ 5950 MHz	dB	25	32	-	-
5530 ~ 5760 MHz	dB	25	32	-	-

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

C.OUTLINE DRAWING:



All tolerances are ± 0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

Unit : mm

Pin assignment

Pin No.	Pin name	Description
1	In	Input
2	GND	Ground
3	GND	Ground
4	Out	Output
5	GND	Ground

Top View (Mass Production):



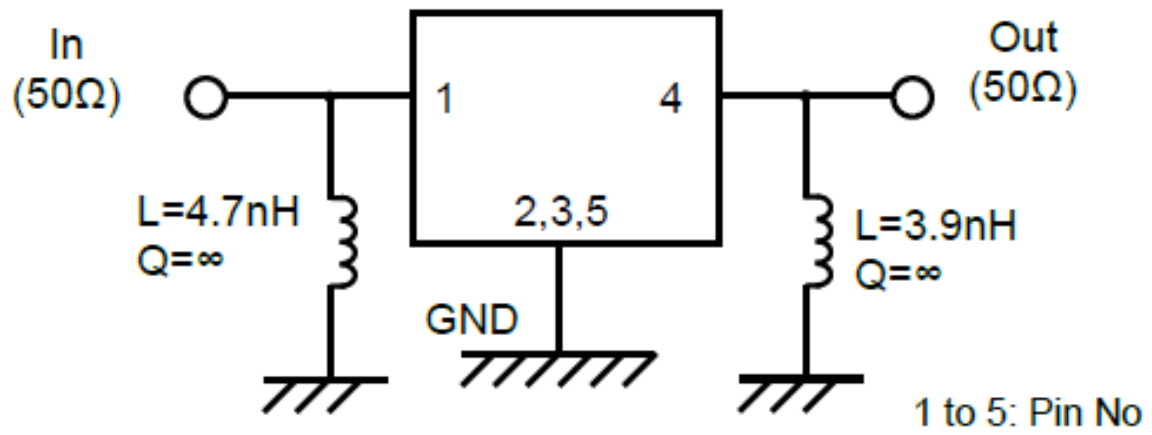
△ : Date Code

□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

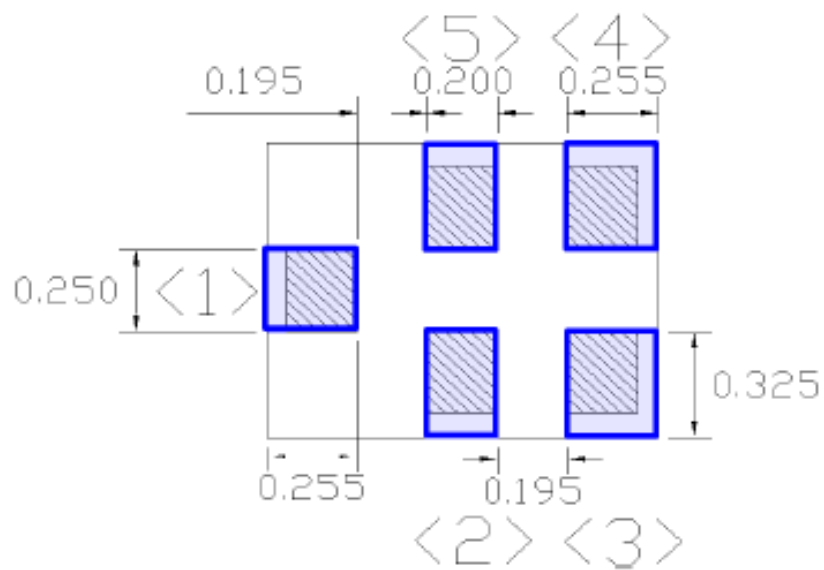
Date Code: (4-year cycle)

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	j	k	l	m
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

D.Evaluation Circuit

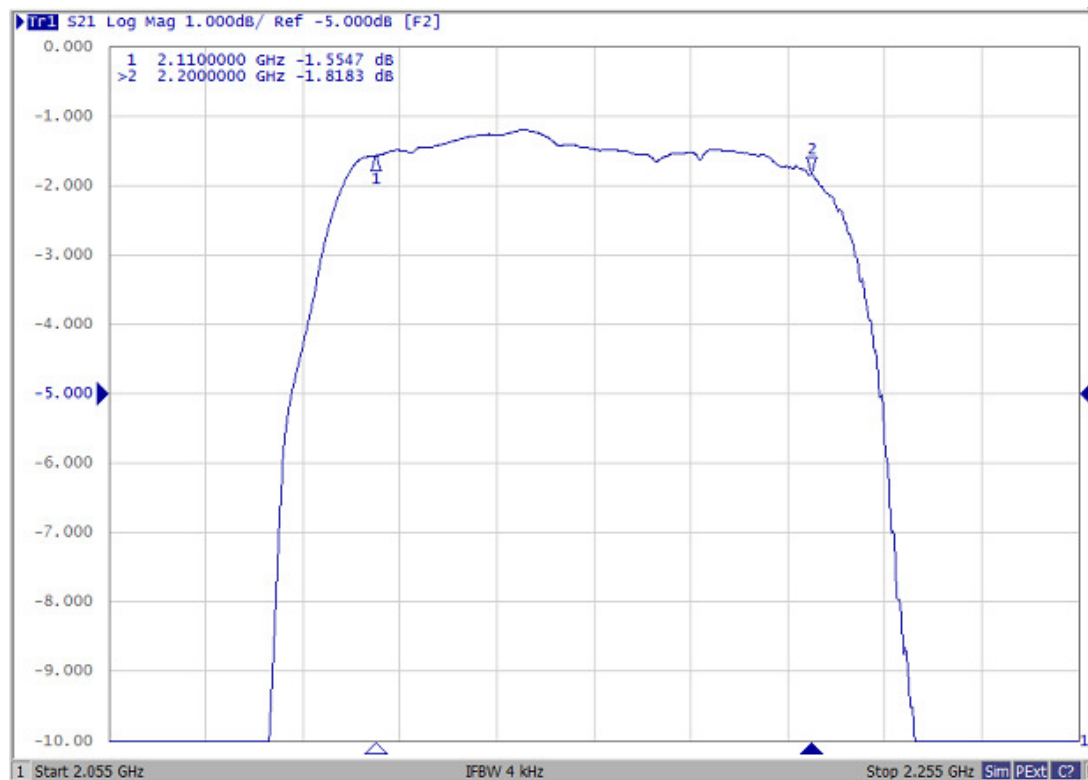
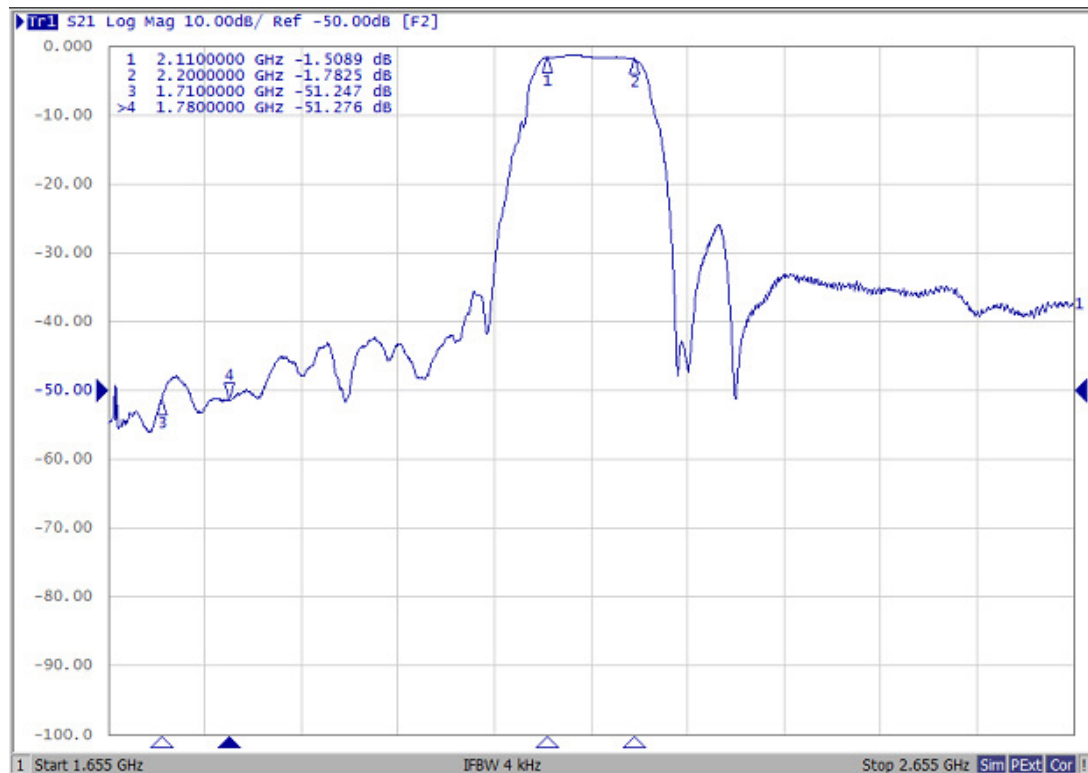


E. PCB Footprint :



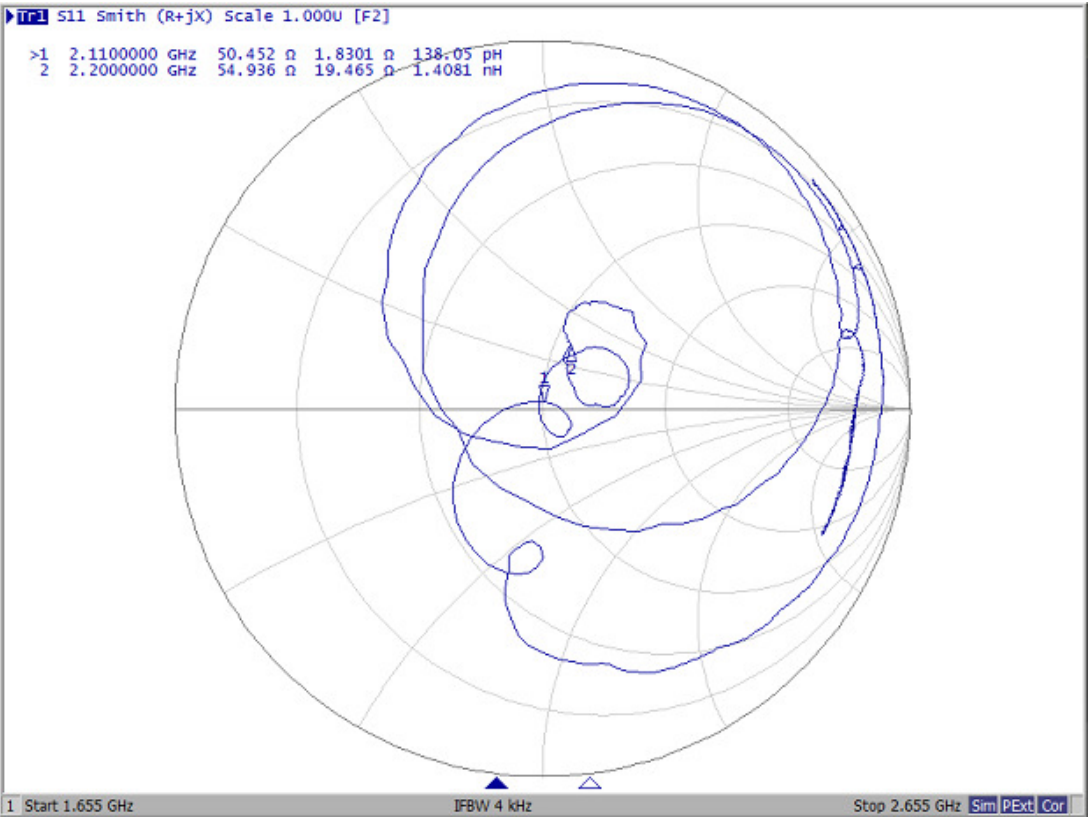
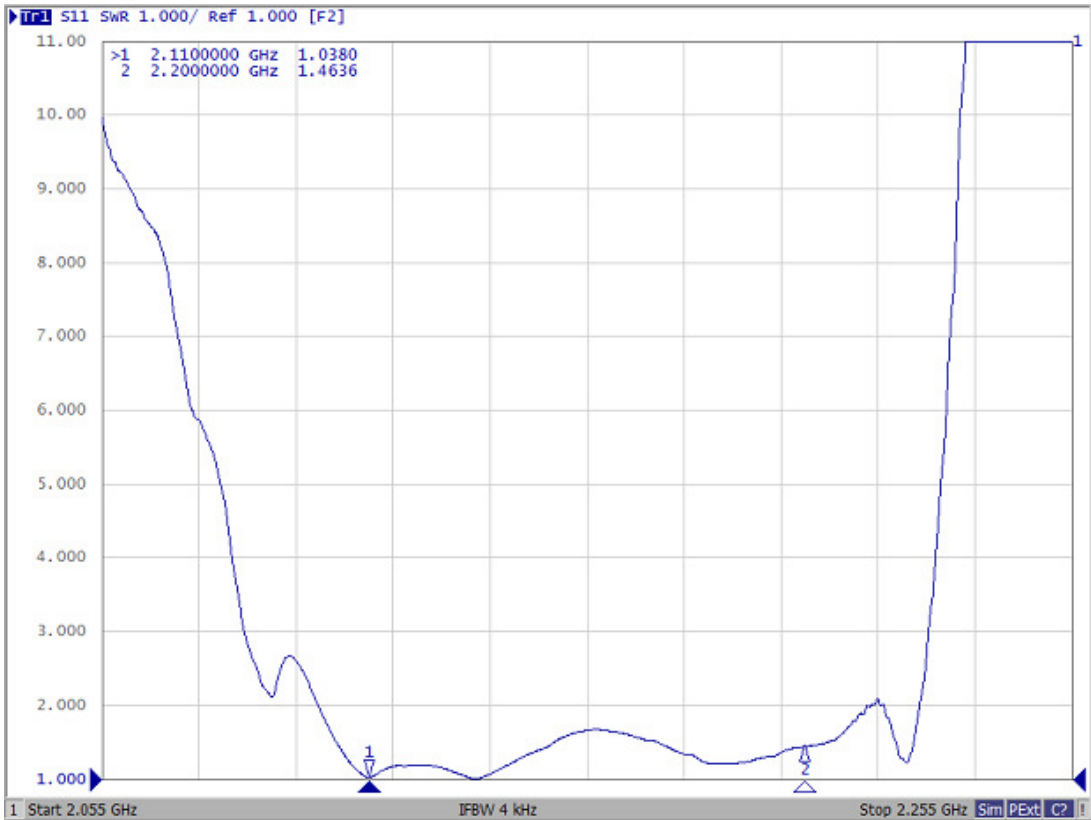
F. FREQUENCY CHARACTERISTICS:

Pass-band



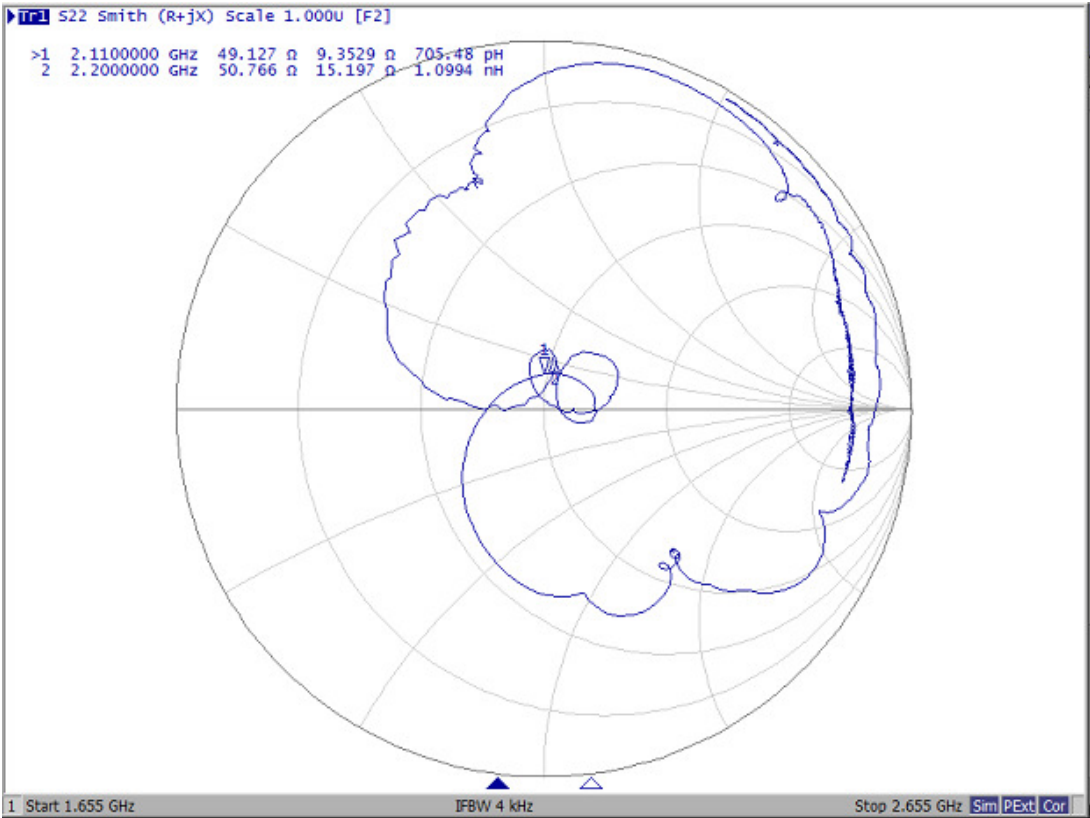
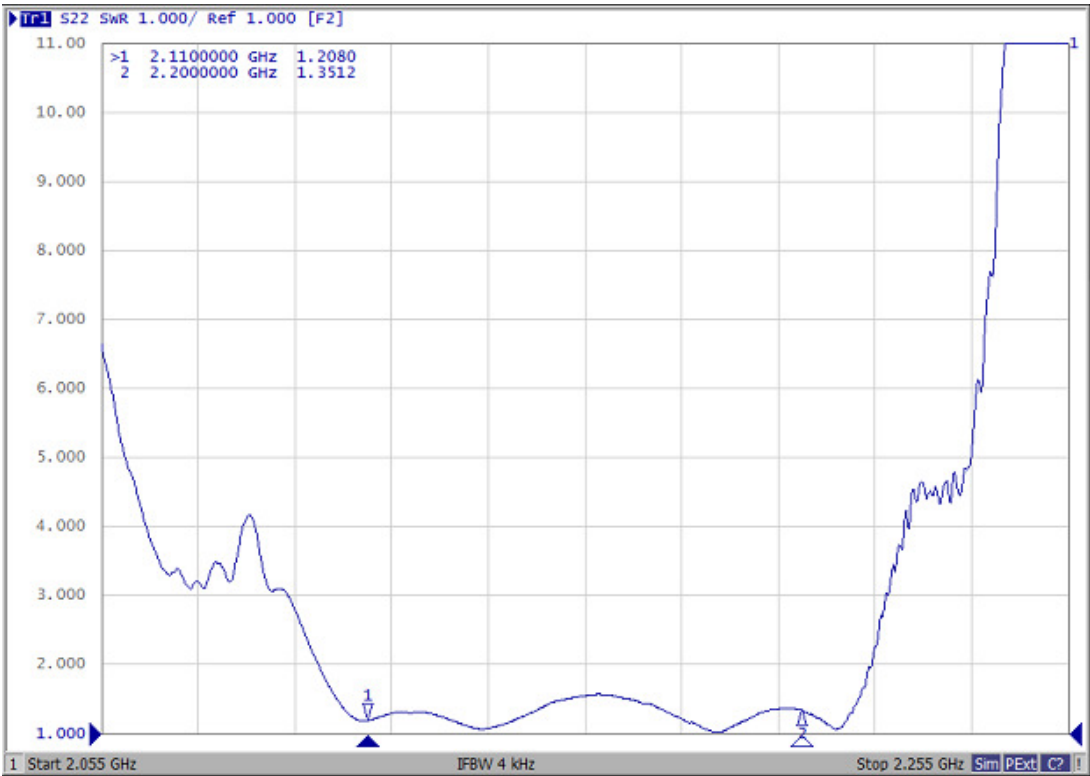
Input Port

VSWR

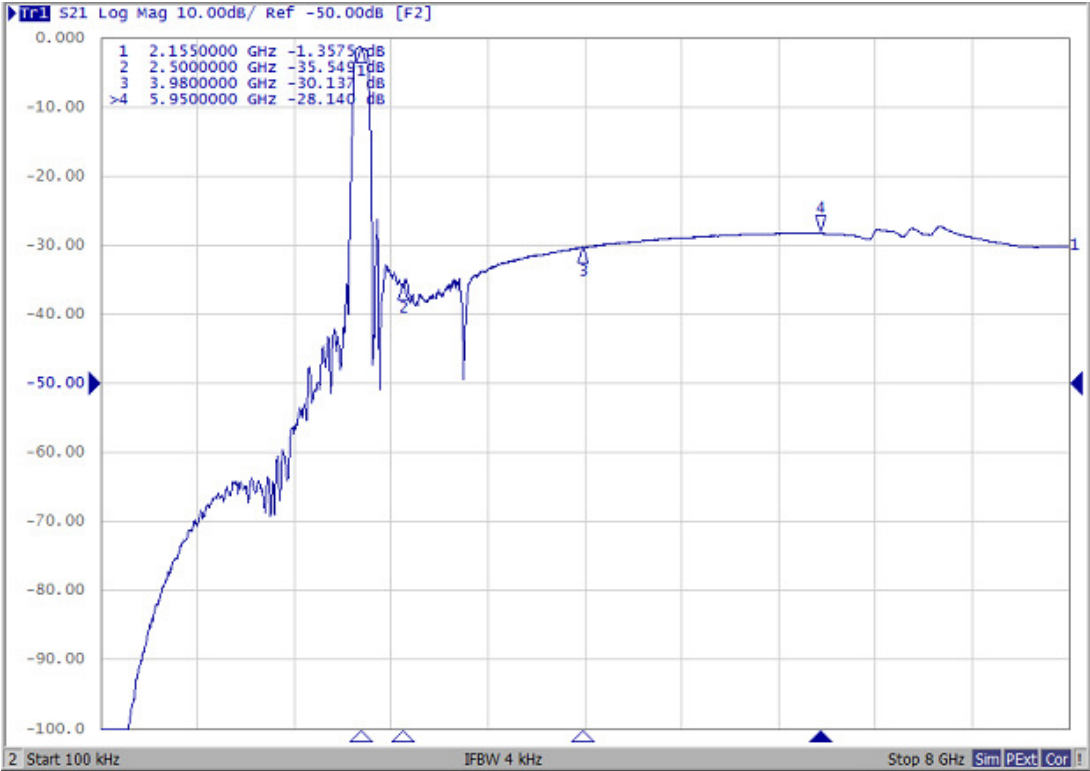


Output Port

VSWR



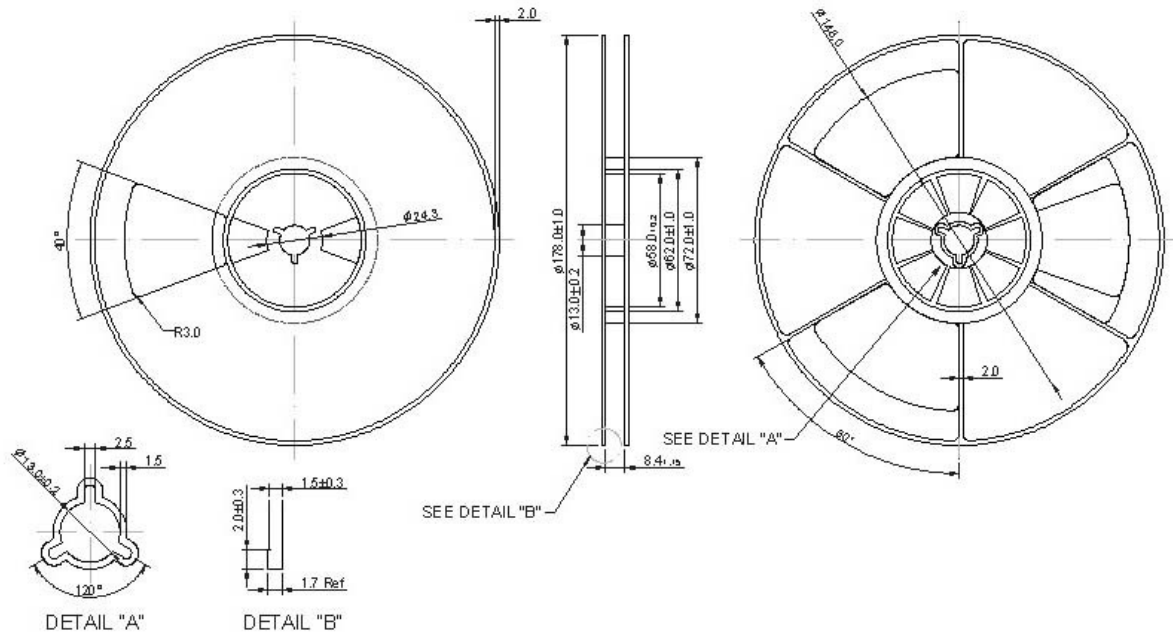
Wide-band



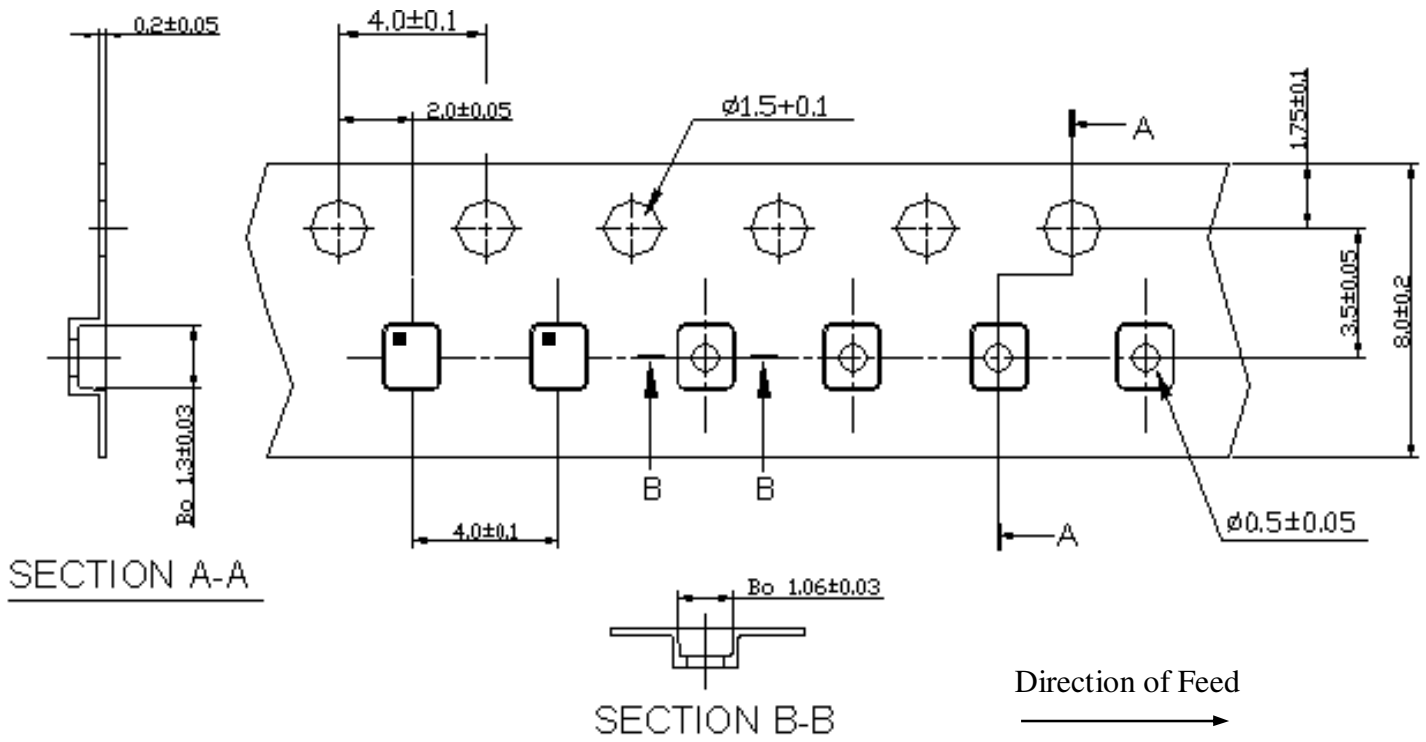
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



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.

