



TAI-SAW TECHNOLOGY CO., LTD.

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

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Name: SAW Filter 1960MHz 60MHz BW Band 2 Rx SMD 1.1x0.9 mm

TST Parts No.: TA1870AM

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee *Kazuma Lee*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 07, 20, 2020

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

TST TAI-SAW TECHNOLOGY CO., LTD.

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

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

SAW Filter 1960 MHz 60MHz BW Band 2 SMD 1.1x0.9 mm

MODEL NO.:TA1870AM

REV.1.0

A. MAXIMUM RATING:

1. Operating temperature range: -30 °C to +90 °C
2. Storage temperature range: -40 °C to +90 °C
3. Maximum Input Power: +10 dBm
4. Maximum DC Voltage: +/-0 V
5. Moisture Sensitivity Level: Level 1

RoHS Compliant
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: $Z_s = 50 \Omega$ (Single-ended)

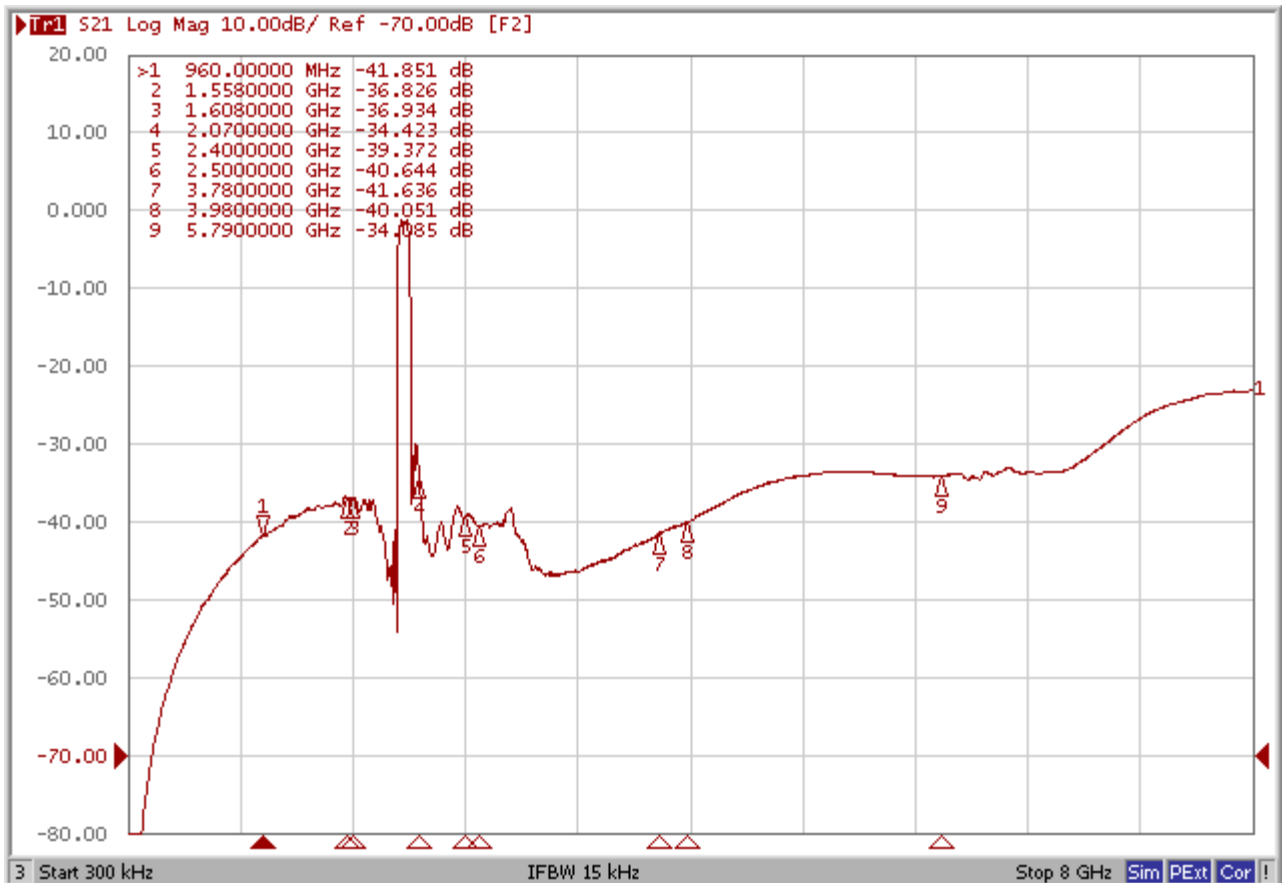
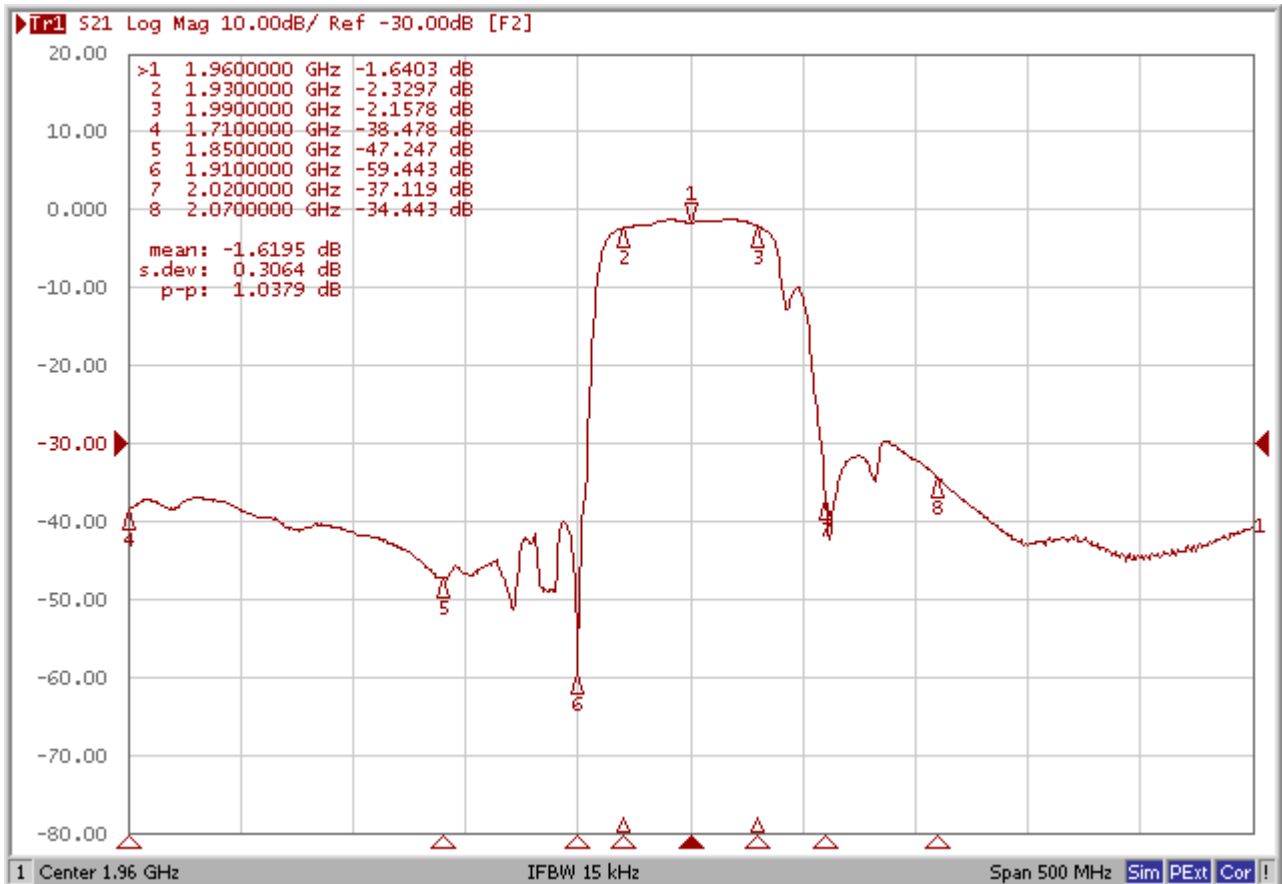
Terminating load impedance: $Z_L = 50\Omega//4.7nH$ (Single-ended)

Parameters Description		Unit	Minimum	Typical	Maximum
Center Frequency		MHz	-	1960	-
Insertion Loss	1930~1990 MHz	dB	-	2.3	4.0
Amplitude ripple	1930~1990 MHz	dBp-p	-	1.0	2.7
VSWR(Input)	1930~1990 MHz	-	-	1.9	2.3
VSWR(Output)	1930~1990 MHz	-	-	1.8	2.3
Attenuation:					
DC~960 MHz		dB	40	45	-
1558~1608 MHz		dB	35	40	-
1710~1850 MHz		dB	35	42	-
1850~1910 MHz		dB	32	36	-
2020~2070 MHz		dB	7	30	-
2070~2400 MHz		dB	25	33	-
2400~2500 MHz		dB	33	44	-
2500~3780 MHz		dB	28	31	-
3780~3980 MHz		dB	28	30	-
3980~5790 MHz		dB	21	34	-
5790~5970 MHz		dB	21	34	-
5970~7720 MHz		dB	21	26	-
7720~7960 MHz		dB	17	20	-
7960~8000 MHz		dB	17	20	-

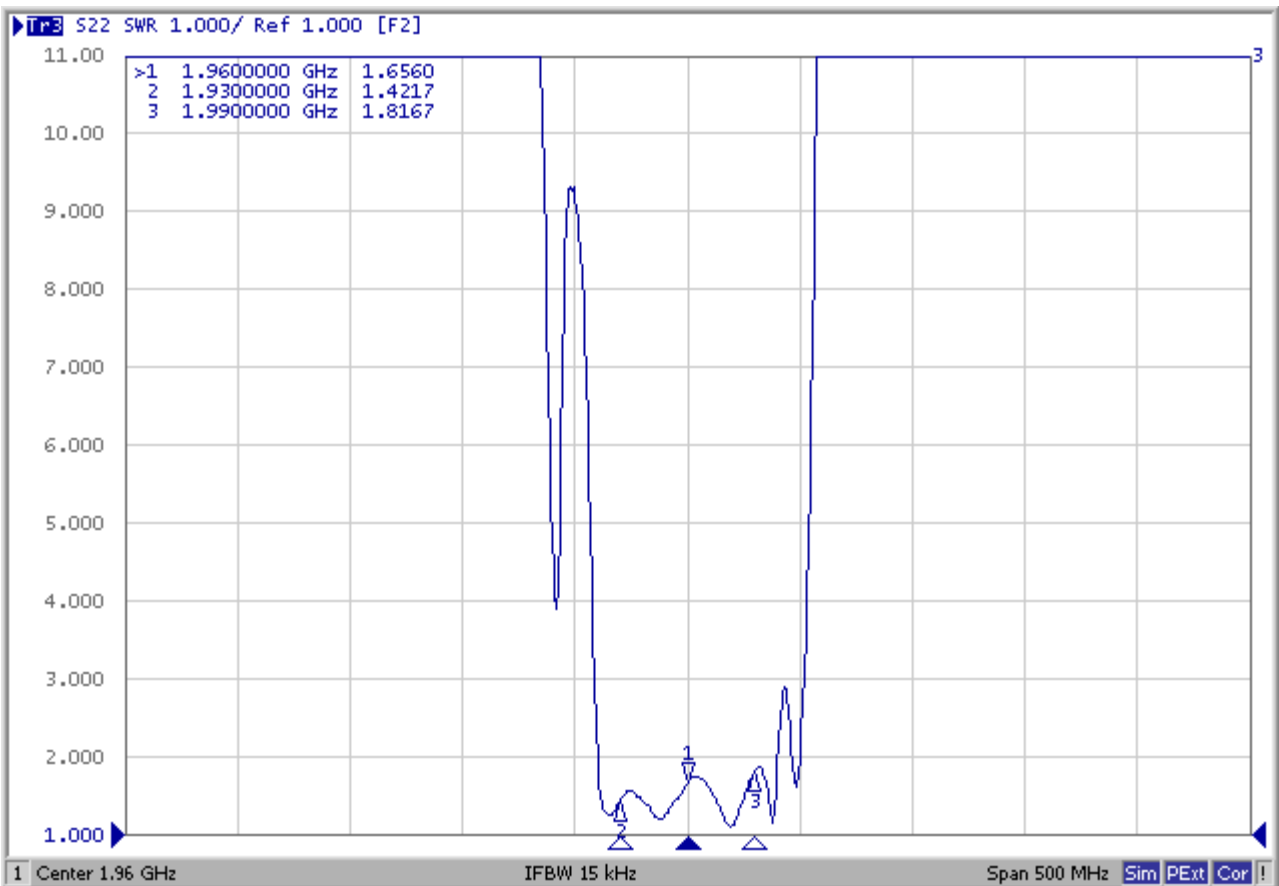
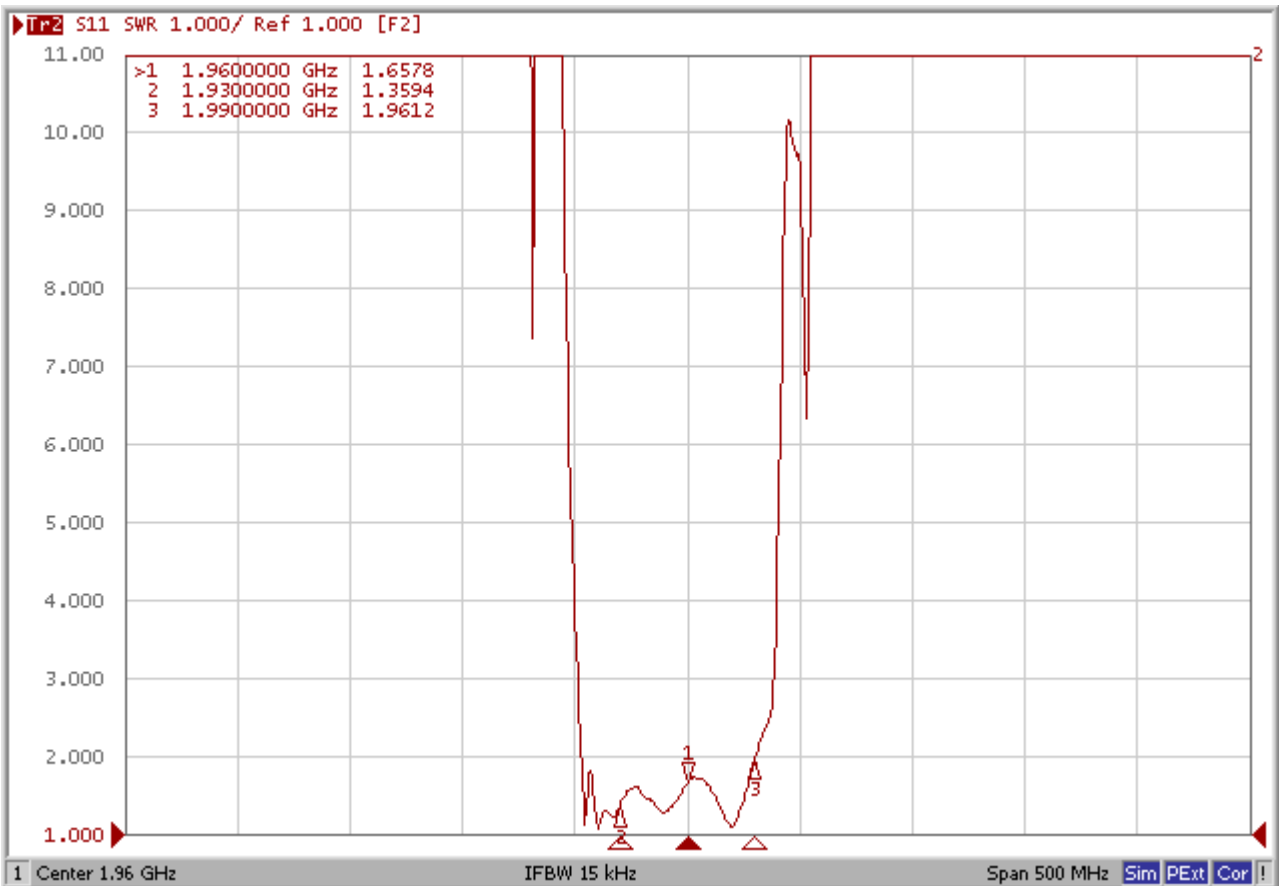
Notes : (1) With Matching Network .

C. FREQUENCY CHARACTERISTIC:

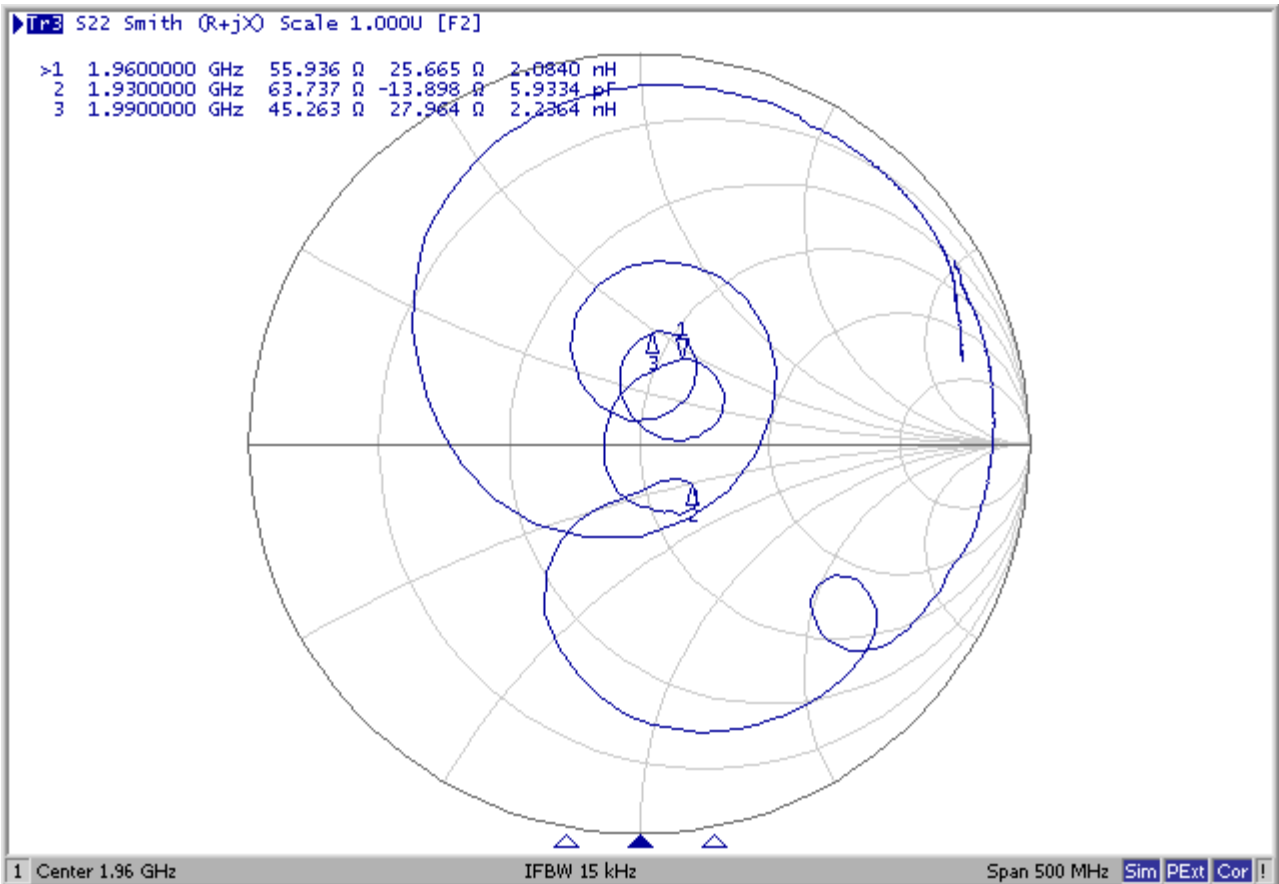
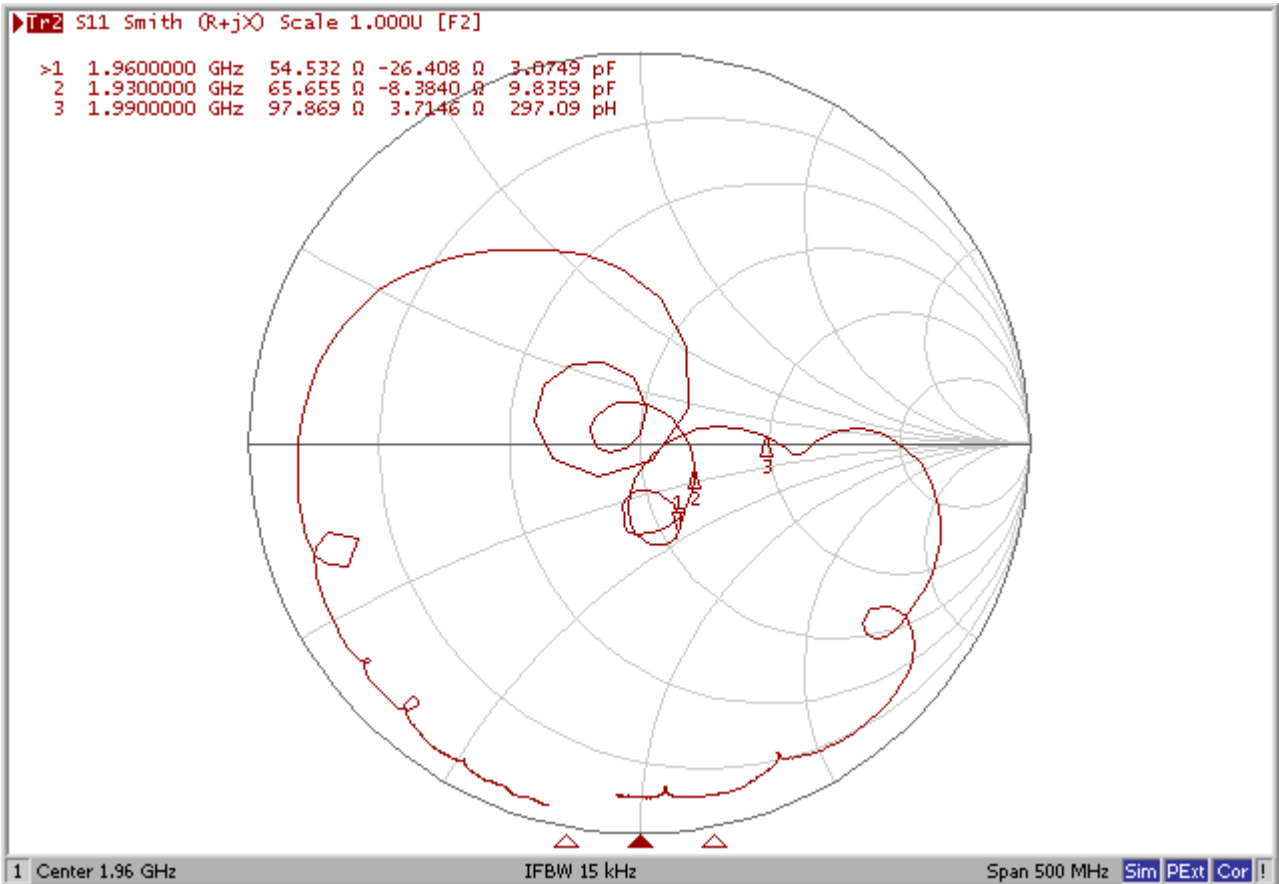
Frequency Response



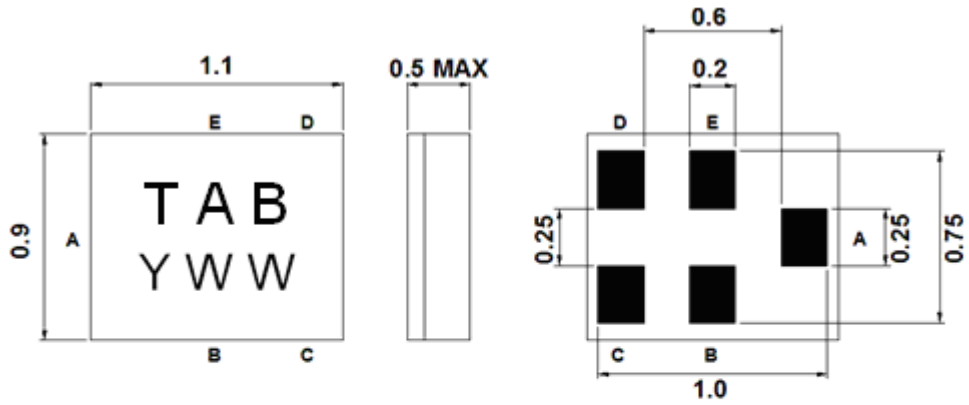
VSWR



Smith Chart



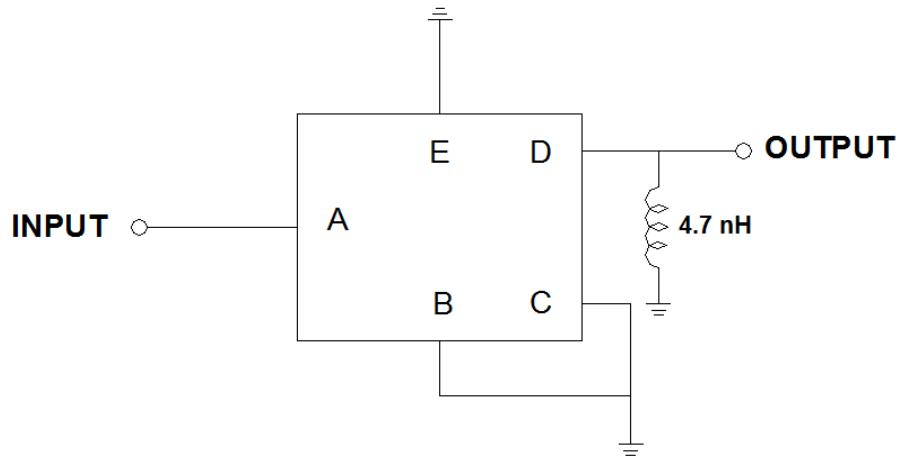
.OUTLINE DRAWING:



Marking Descriptions	
AB	Series number
Y	Year Code (2020 → 0)
WW	Week Code (Week3 → 03)

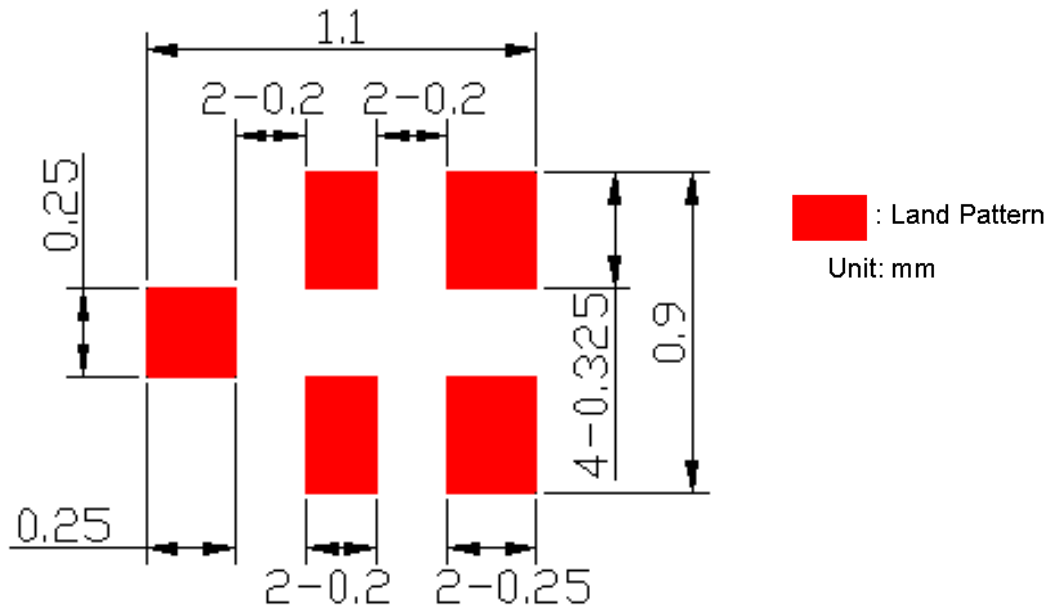
Pin Description	
B, C, E	Ground
A	Input
D	Output

E. MEASUREMENT CIRCUIT:



Source & Load Impedance: 50 Ω

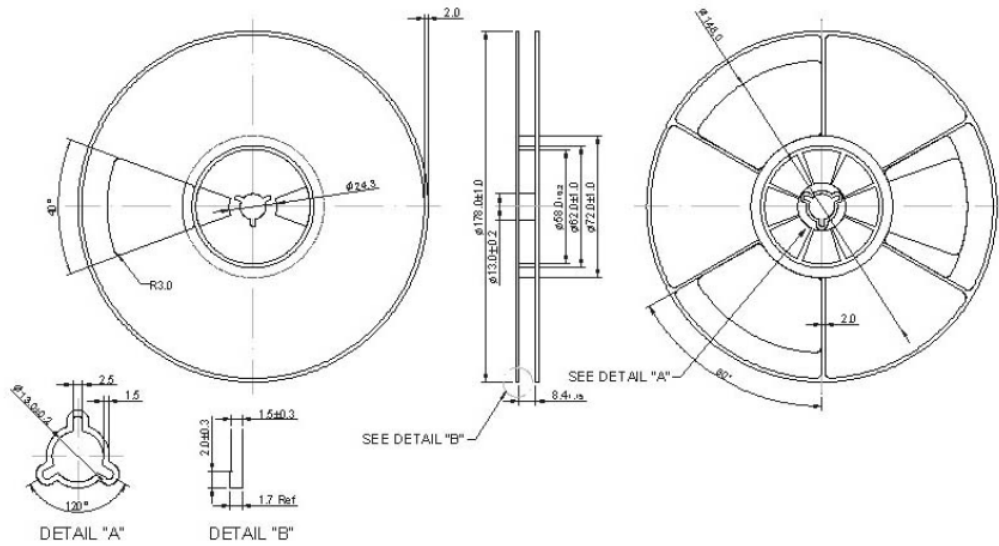
F. PCB FOOTPRINT:



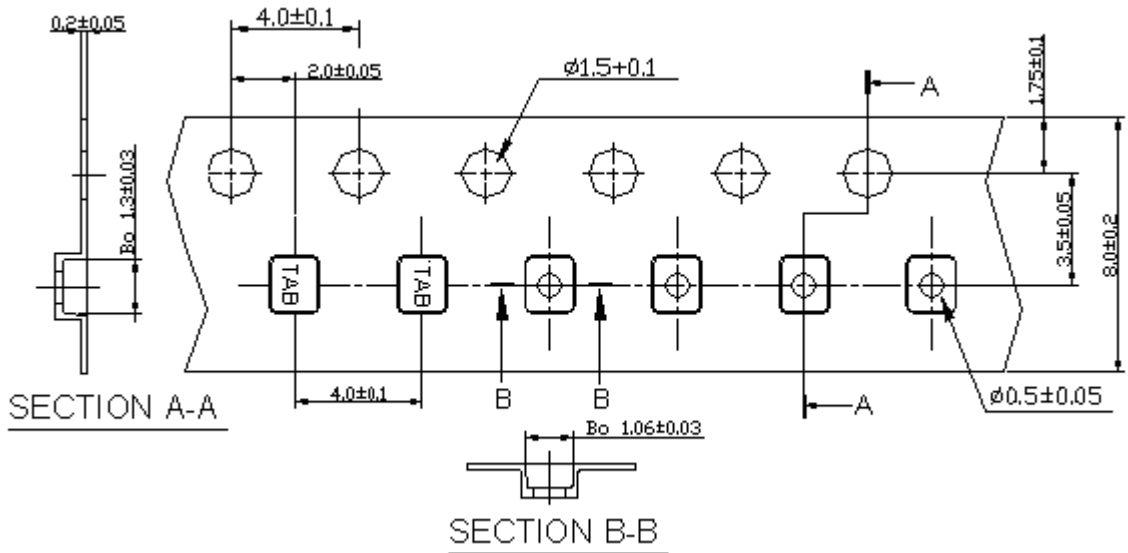
G. PACKING:

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

