

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

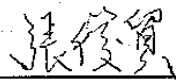
Product Specifications Approval Sheet

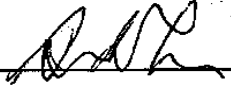
Product Description: SAW Filter 1900MHz 3.0 x 3.0 mm

TST Part No.: TA1240A

Customer Part No.: _____

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

Checked by: _____ Jun-Mao Chang 

Approved by: _____ Andrew Lee 

Date: _____ 10. 12. 2010

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.



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 1900MHz

MODEL NO.:TA1240A

REV. NO.:1

A. MAXIMUM RATING:

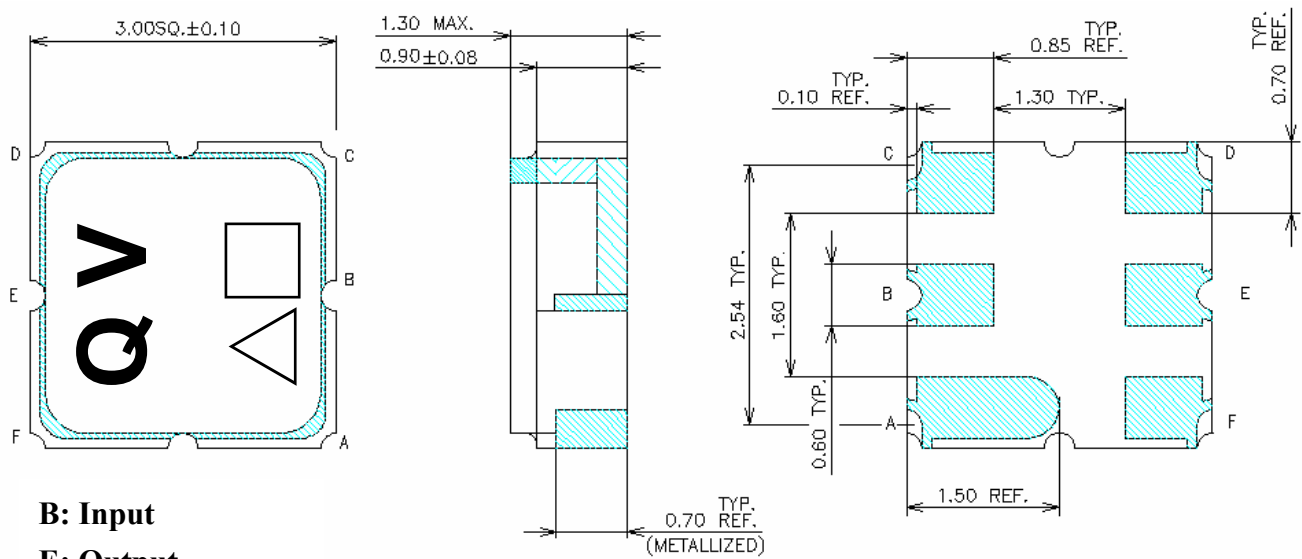
1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min	Typical	Max
Center Frequency F_c	MHz		1900	
Insertion Loss (1880~1920 MHz) IL	dB	--	1.1	3
Amplitude Ripple (1880~1920 MHz)	dB	--	0.8	1.3
Group Delay Ripple (1880~1920 MHz)	ns	--	10	40
Input VSWR (1880~1920 MHz)		--	1.75	2.0
Output VSWR (1880~1920 MHz)		--	1.75	2.0
Attenuation (Reference level from 0 dB)				
0.3 ~ 960 MHz	dB	30	33.6	--
960 ~ 1805 MHz	dB	30	43.5	--
1805 ~ 1830 MHz	dB	30	43.5	--
1830 ~ 1850 MHz	dB	30	42	--
1950 ~ 2010 MHz	dB	15	40.5	--
2010 ~ 2025 MHz	dB	40	42	--
2110 ~ 2170 MHz	dB	35	37	--
2300 ~ 2400 MHz	dB	35	37	--
2400 ~ 3000 MHz	dB	28	37	--
Input / Output Impedance	Ω	50		

C.Outline Drawing:



B: Input

E: Output

A,C,D,F: Ground

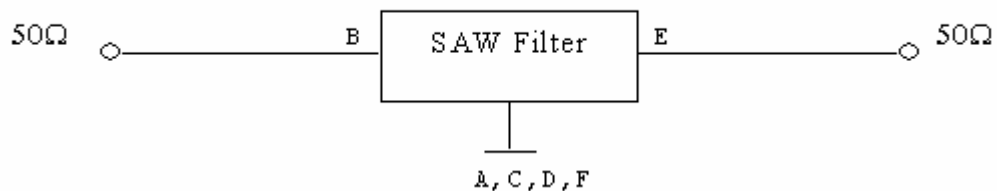
Dimension: mm

Δ : Year (年碼, 2010 年: 0)

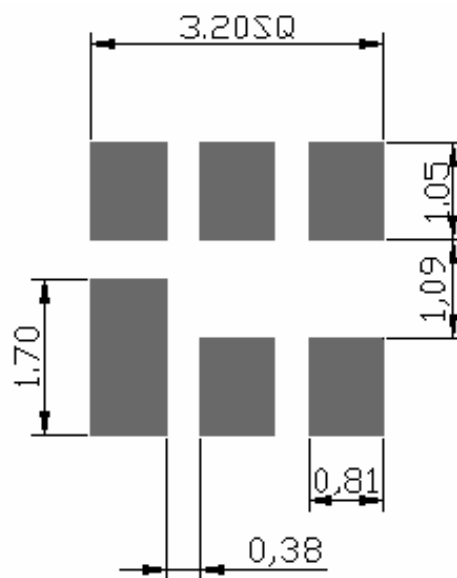
□: Week (週碼, A~Z : week01~week26; a~z: week27~week52)

D. Measurement Circuit:

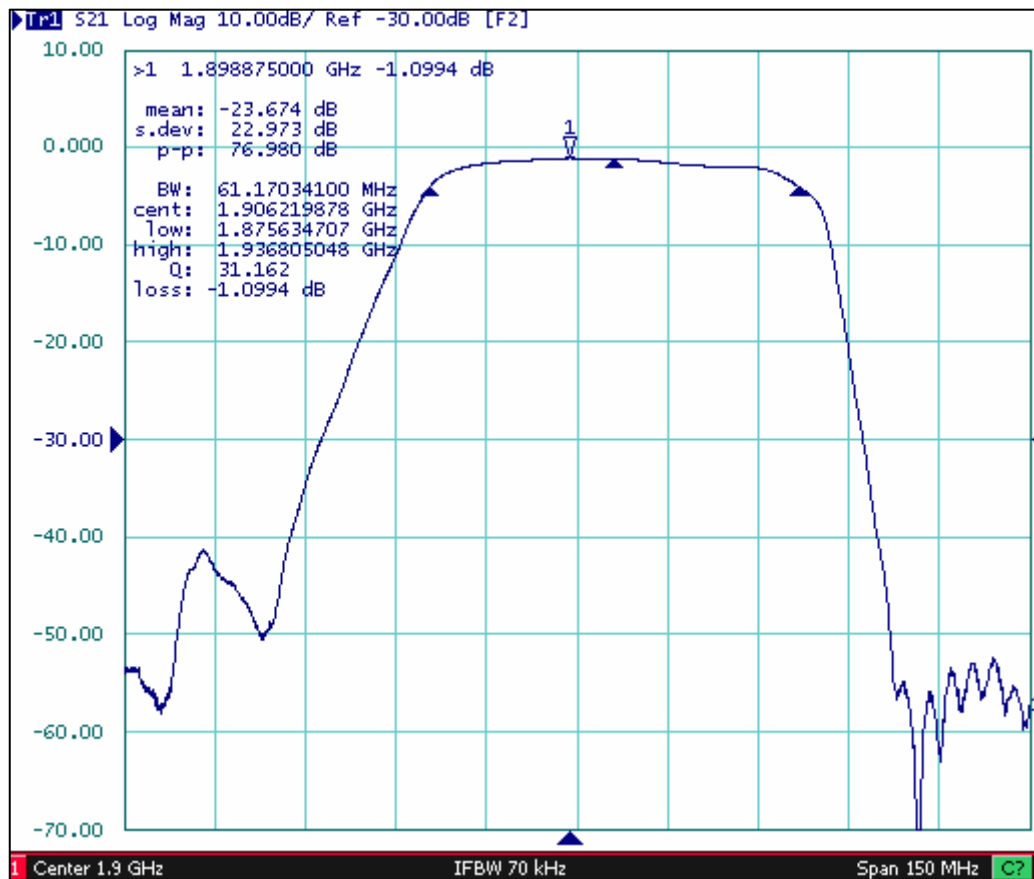
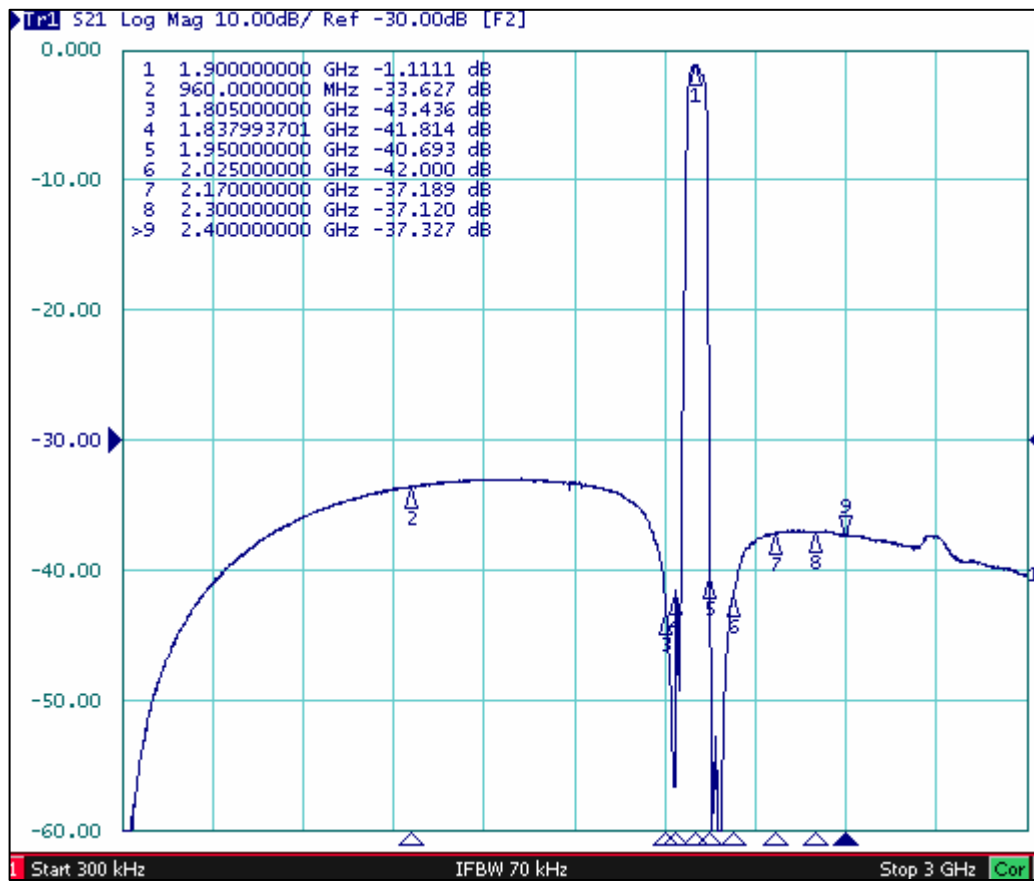
HP Network analyzer

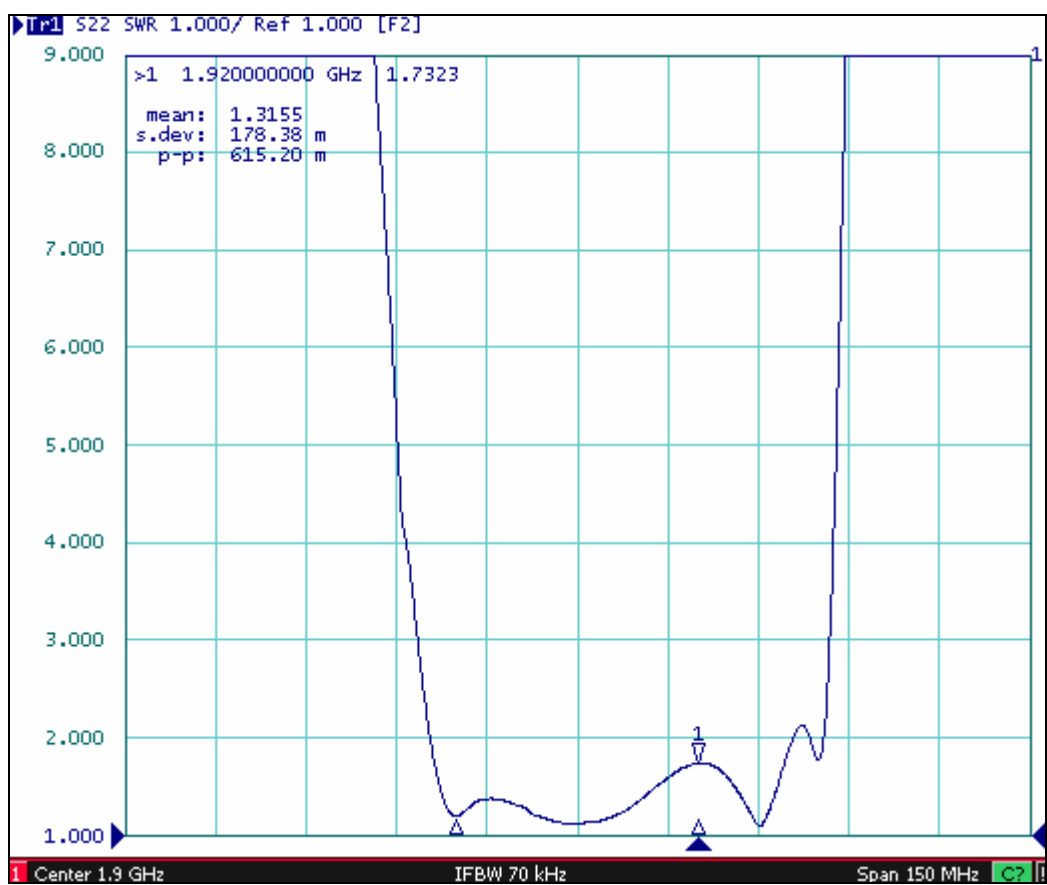
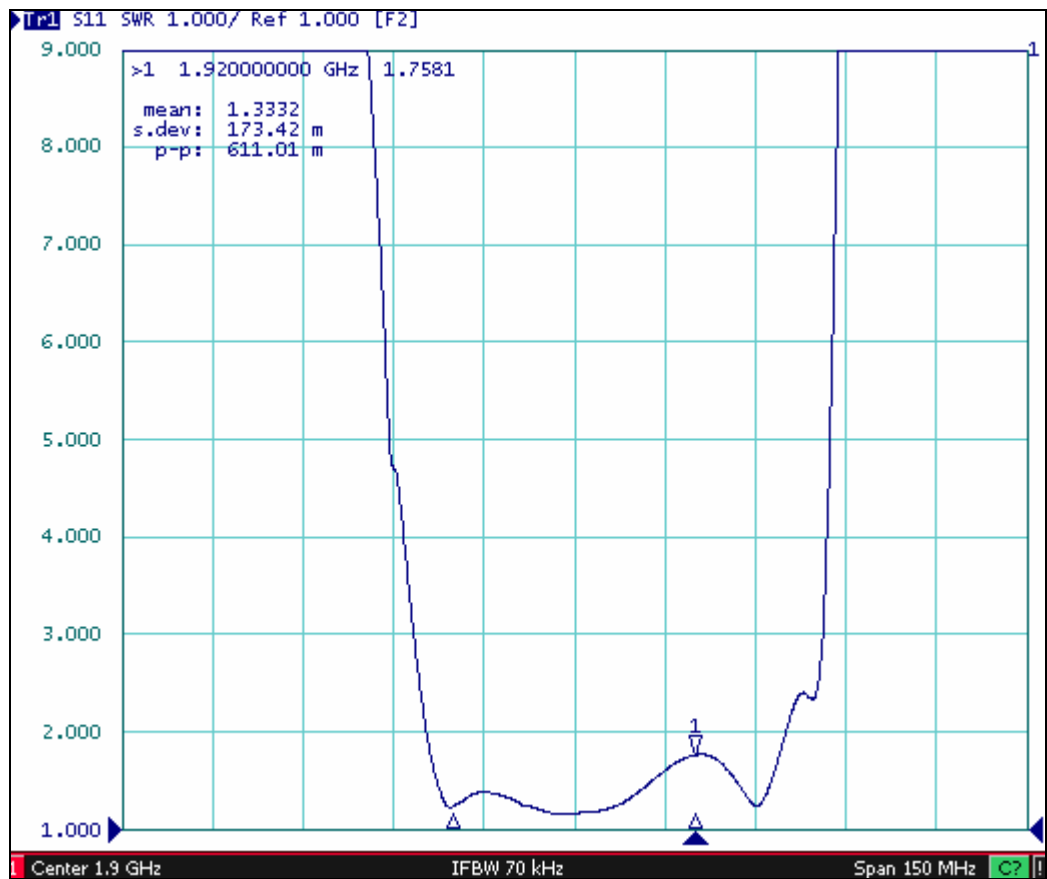


E. PCB Footprint:



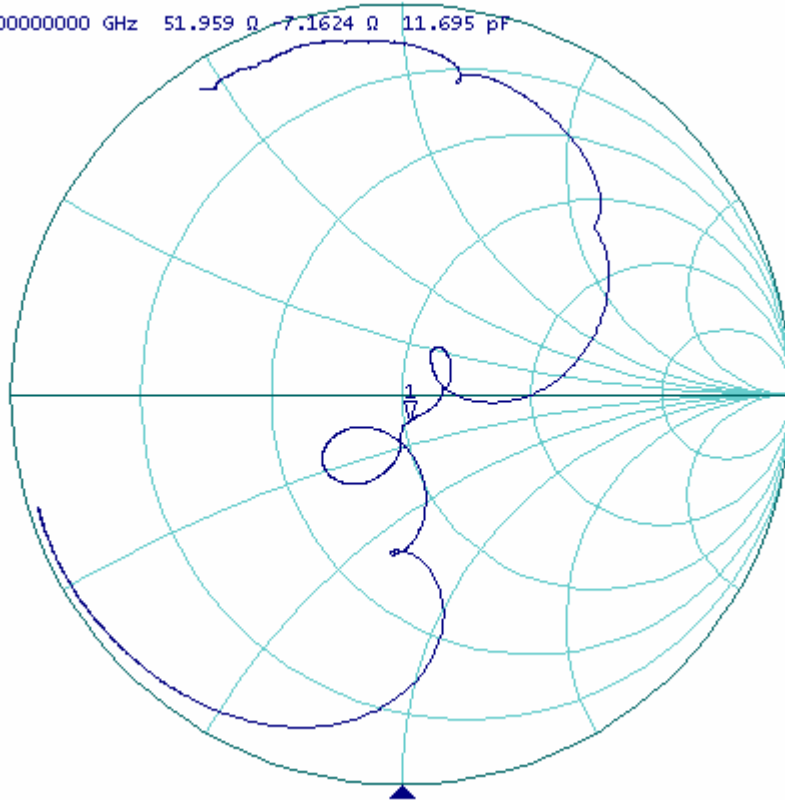
F. Frequency Characteristics : (Demo Board)





► Tr1 S11 Smith (R+jX) Scale 1.000U [F2]

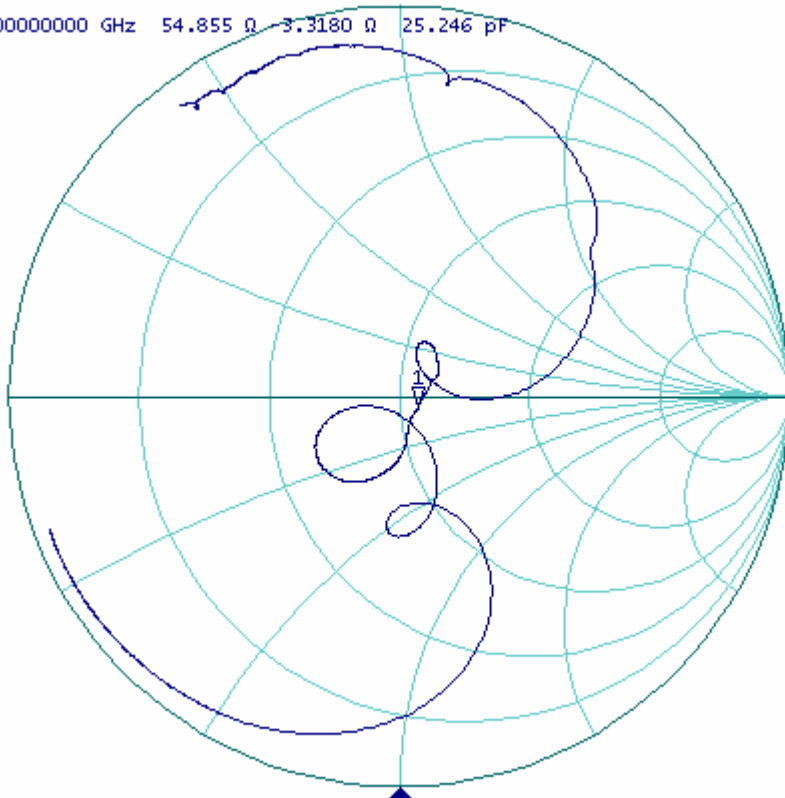
>1 1.900000000 GHz 51.959 Ω -7.1624 Ω 11.695 pF



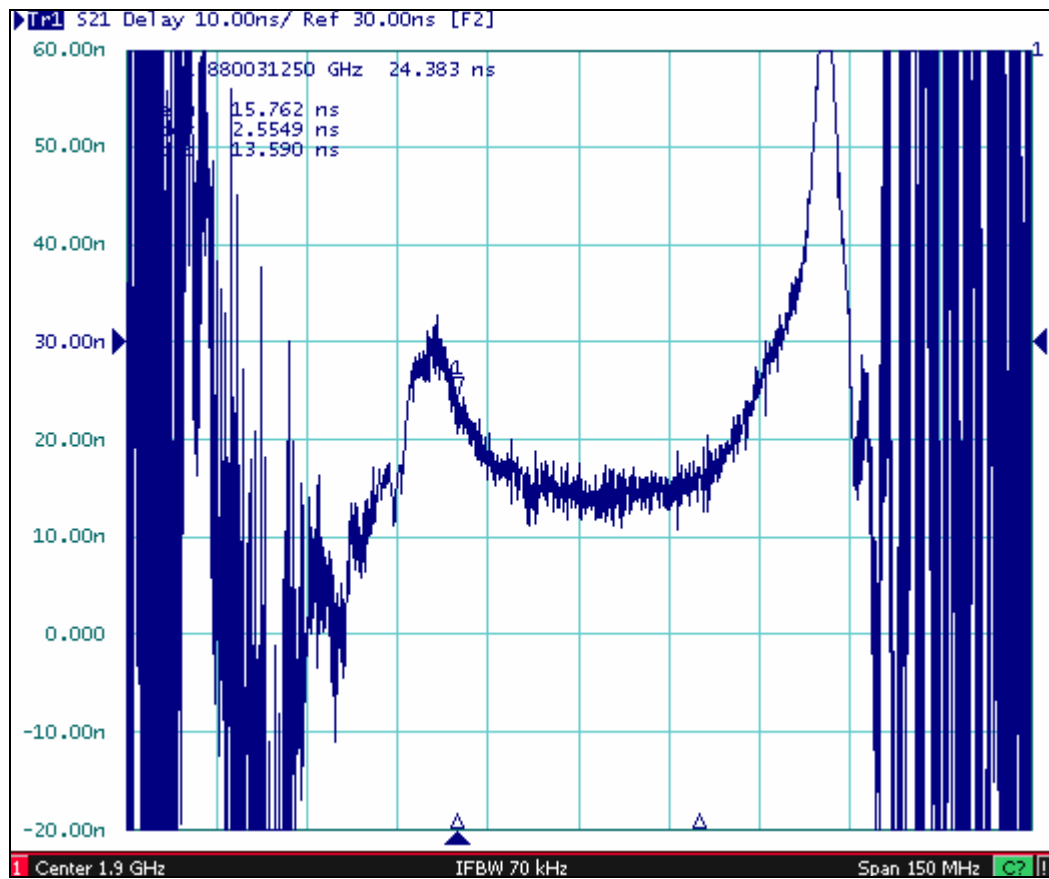
Center 1.9 GHz IFBW 70 kHz Span 150 MHz

► Tr1 S22 Smith (R+jX) Scale 1.000U [F2]

>1 1.900000000 GHz 54.855 Ω -3.3180 Ω 25.246 pF

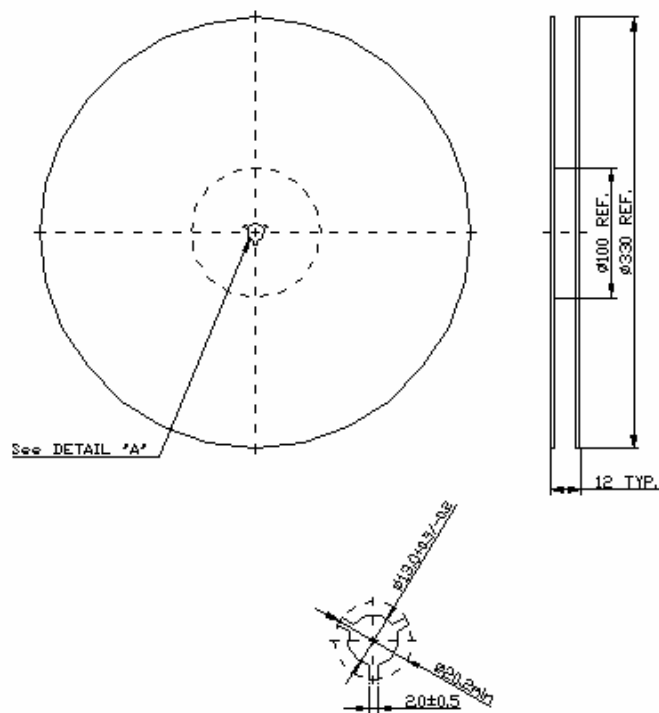


Center 1.9 GHz IFBW 70 kHz Span 150 MHz



G. Packing:

1. REEL DIMENSION



2. TAPE DIMENSION

