



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: SAW Filter 860.5+938 MHz SMD 3.0X2.5 mm

TST Part No.: TE0111A

Customer Part No.: _____

Customer signature required

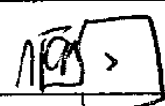
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau 

Approved by: _____ Francis Chen 

Date: _____ 9,28, 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.



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SAW Filter 860.5+938 MHz

MODEL NO.:TE0111A

REV. NO.:1

Filter 1

A. MAXIMUM RATING:

1. Input Power Level: +10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -30°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.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	860.5	-	-
Insertion Loss (851~870 MHz) IL	dB	-	2.5	3.2	-
Amplitude Ripple (851~870 MHz)	dB	-	0.9	1.3	-
Return Loss (851~870 MHz)	dB	10	12	-	
Group Delay Variation (851~870 MHz)	ns	-	10	50	
Attenuation (Reference level from 0 dB)					
769 ~ 788 MHz	dB	40	43	-	-
932 ~ 953 MHz	dB	42	46	-	-
688 ~ 705 MHz	dB	41	45	-	-
1013 ~ 1036 MHz	dB	41	45	-	-
1740 ~ 3000 MHz	dB	27	32	-	-
D.C ~ 688 MHz	dB	41	45	-	-
806 ~ 825 MHz	dB	25	40	-	-
896 ~ 902 MHz	dB	25	30	-	-
1702 ~ 1740 MHz	dB	33	42	-	-
Temperature Coefficient of Frequency	Ppm/°C	-	-36	-	-

Filter 2

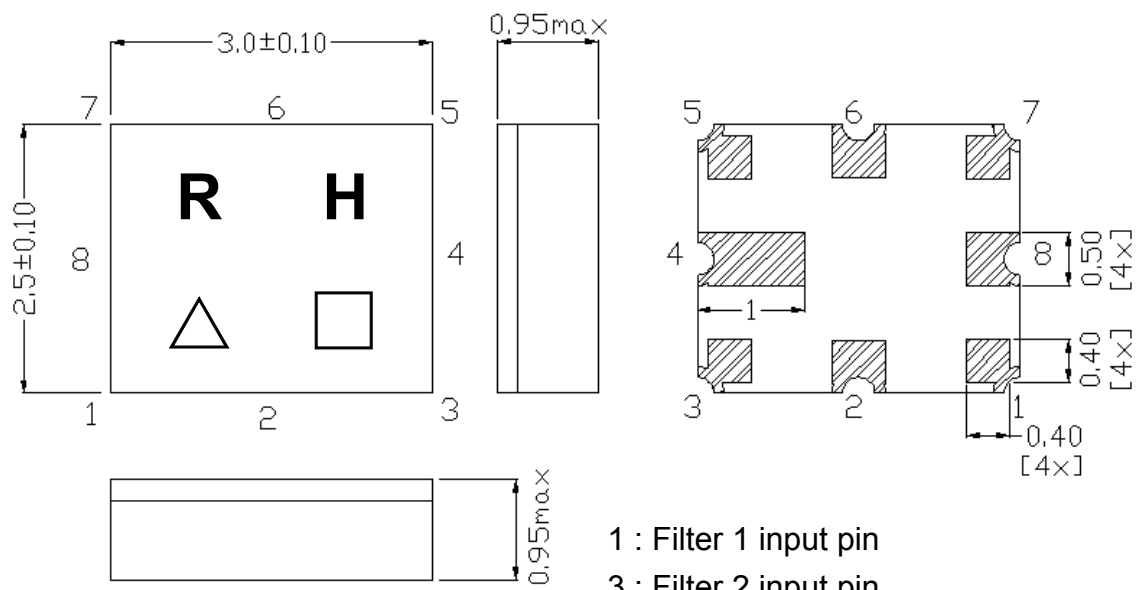
A. MAXIMUM RATING:

3. Input Power Level: +10 dBm
4. DC Voltage : 3V
3. Operating Temperature: -30°C to +70°C
5. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	938	-	-
Insertion Loss (935~941 MHz) IL	dB	-	2.7	3.3	-
Amplitude Ripple (935~941 MHz)	dB	-	0.6	1.2	-
Return Loss (935~941 MHz)	dB	8.5	10	-	-
Group Delay Variation (935~941 MHz)	ns	-	5	50	-
Attenuation (Reference level from 0 dB)					
845 ~ 852 MHz	dB	40	44	-	-
1024 ~ 1031 MHz	dB	42	46	-	-
756 ~ 762 MHz	dB	41	45	-	-
1113 ~ 1121 MHz	dB	42	46	-	-
1882 ~ 3000 MHz	dB	27	32	-	-
D.C ~ 756 MHz	dB	41	45	-	-
806 ~ 825 MHz	dB	25	44	-	-
896 ~ 902 MHz	dB	25	40	-	-
1870 ~ 1882 MHz	dB	33	43	-	-
Temperature Coefficient of Frequency	Ppm/°C	-	-36	-	-

C.OUTLINE DRAWING:



1 : Filter 1 input pin

3 : Filter 2 input pin

5 : Filter 2 output pin

7 : Filter 1 output pin

2,4,6,8 : Ground pin

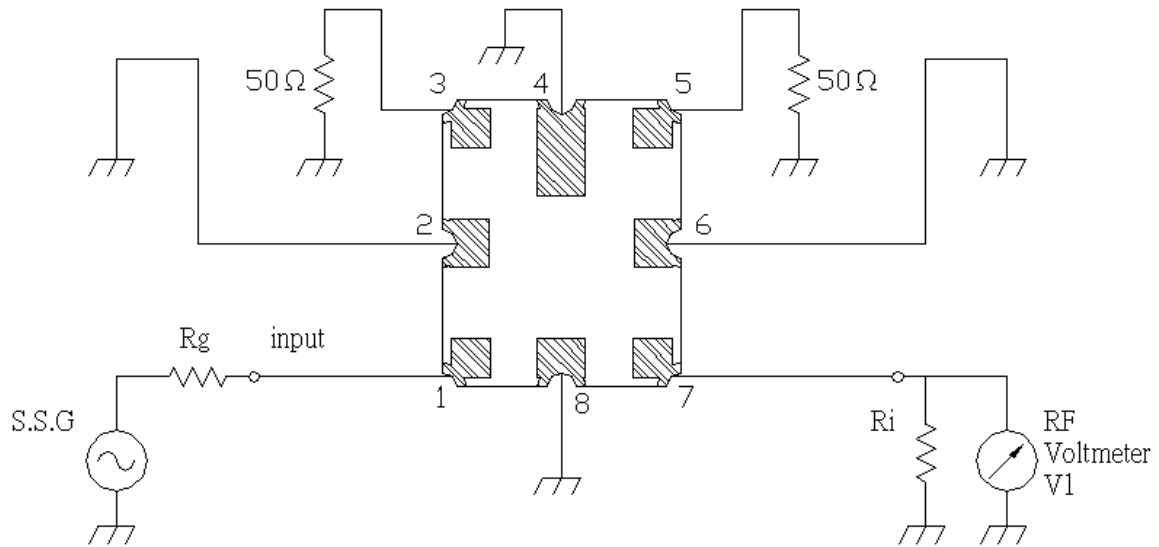
△ : Year Code(2010->0,...,2018->8)

□ : Date Code(W01->A,...,W26->Z,...,W52->z)

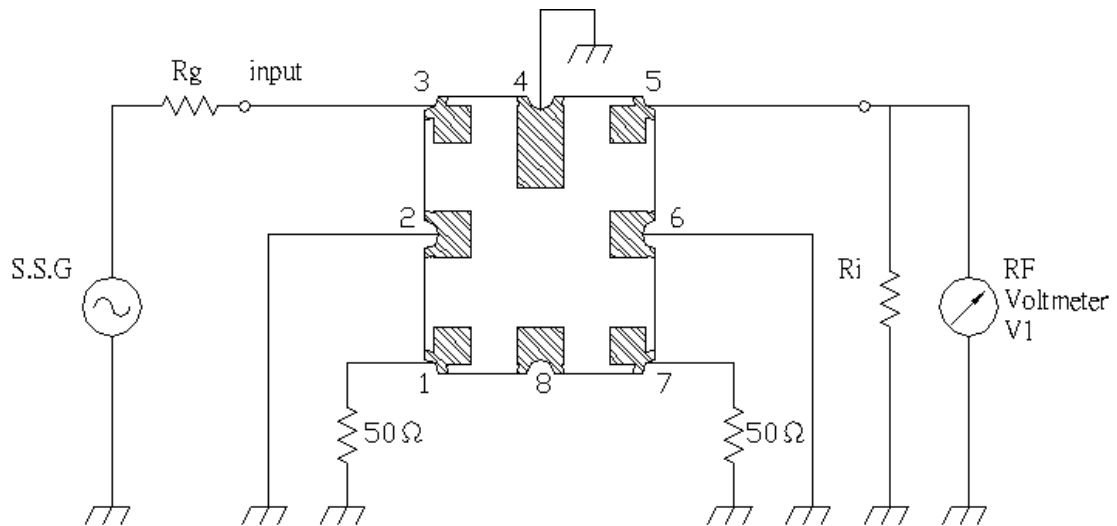
Unit: mm

D. MEASUREMENT CIRCUIT:

Filter 1

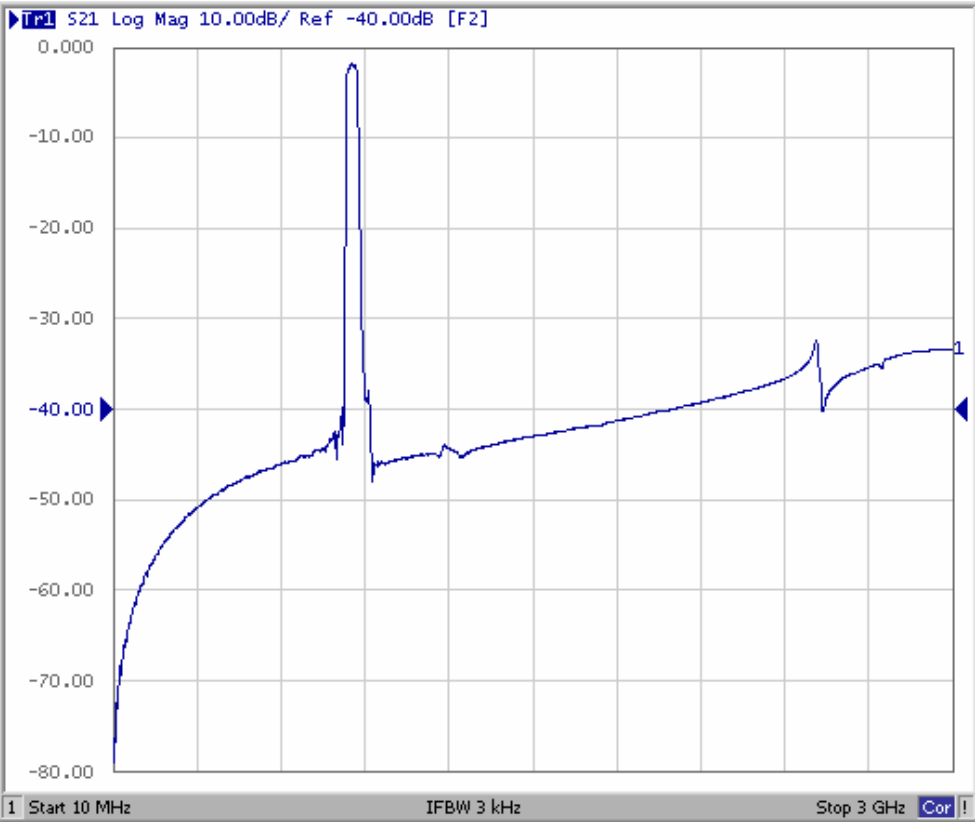
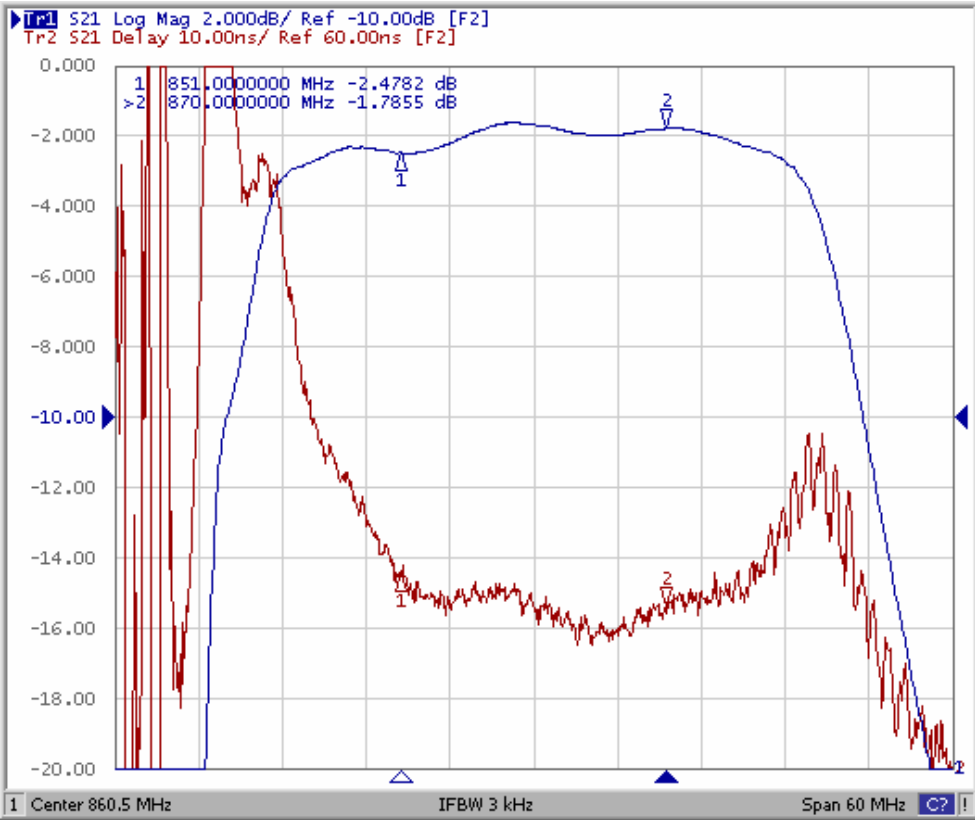


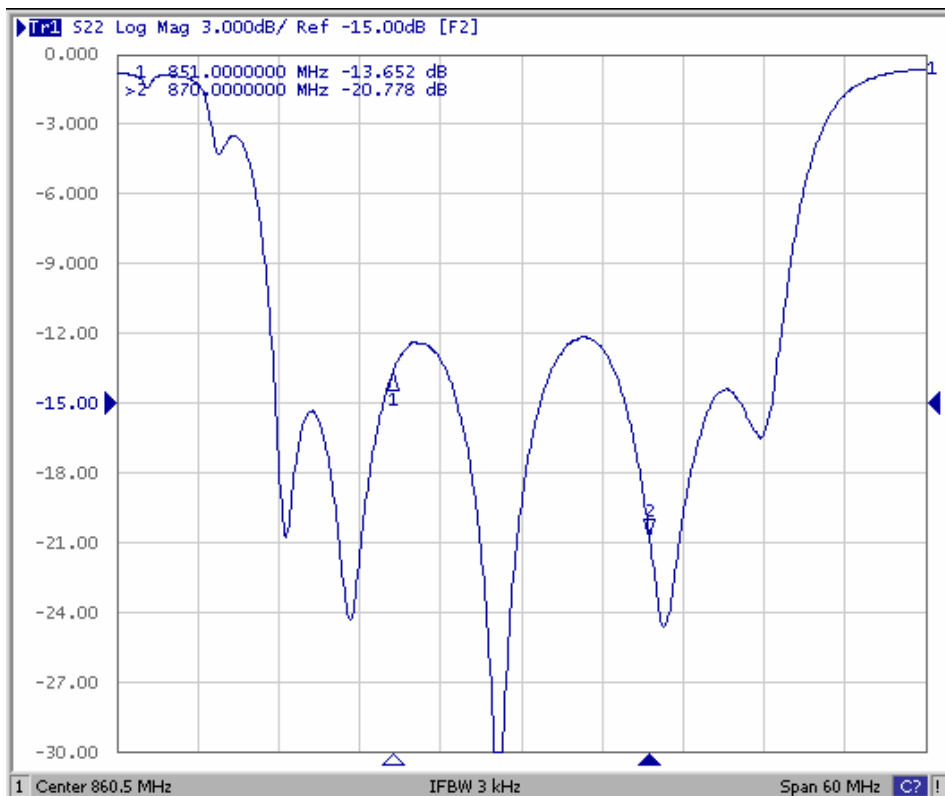
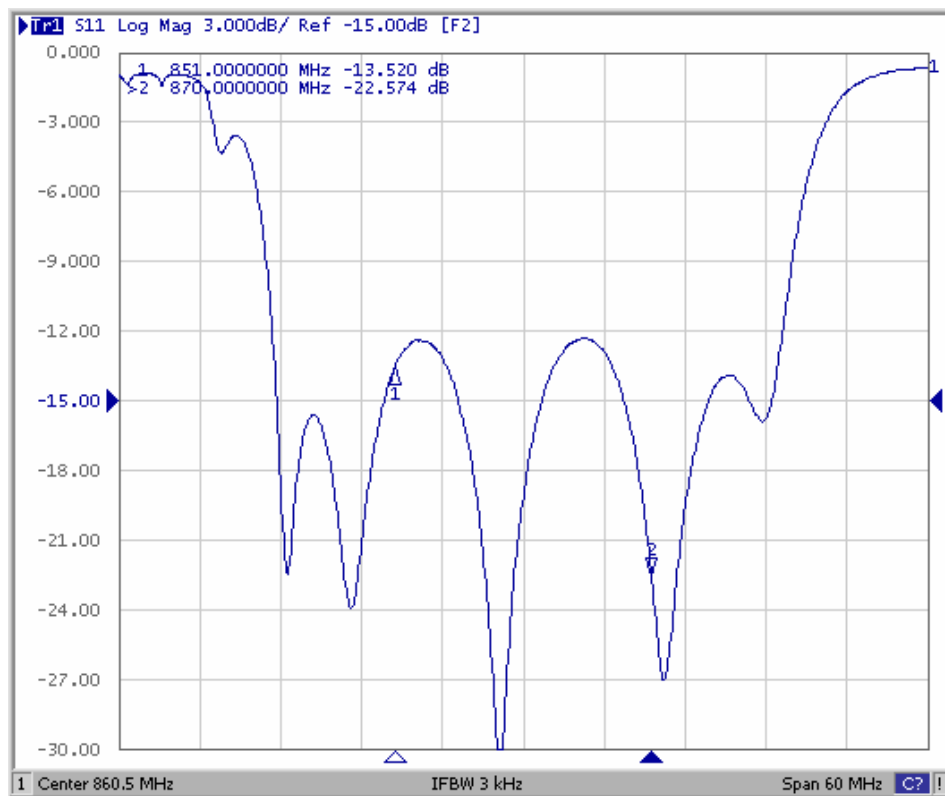
Filter 2



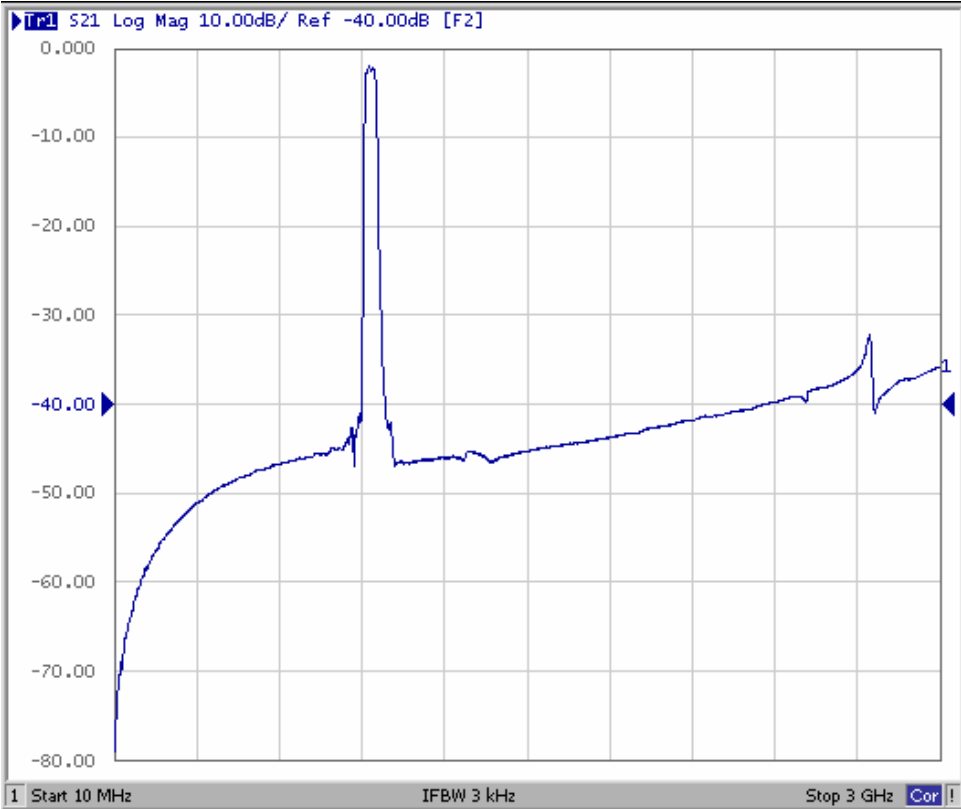
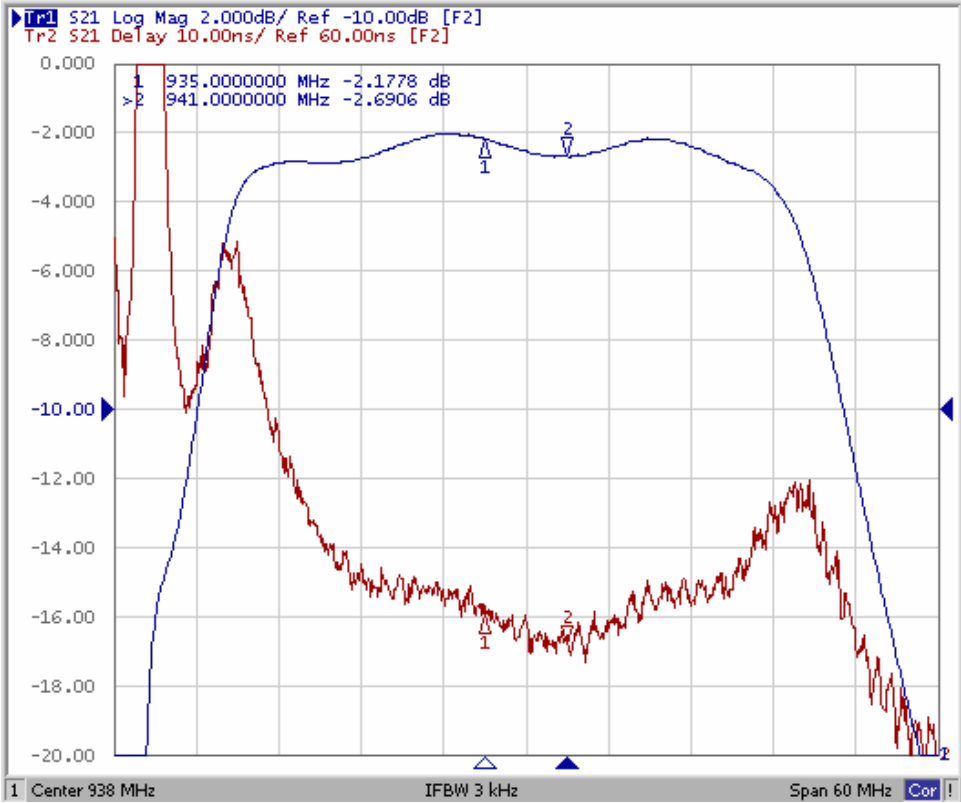
$R_g=50\Omega$
 $R_i=50\Omega$

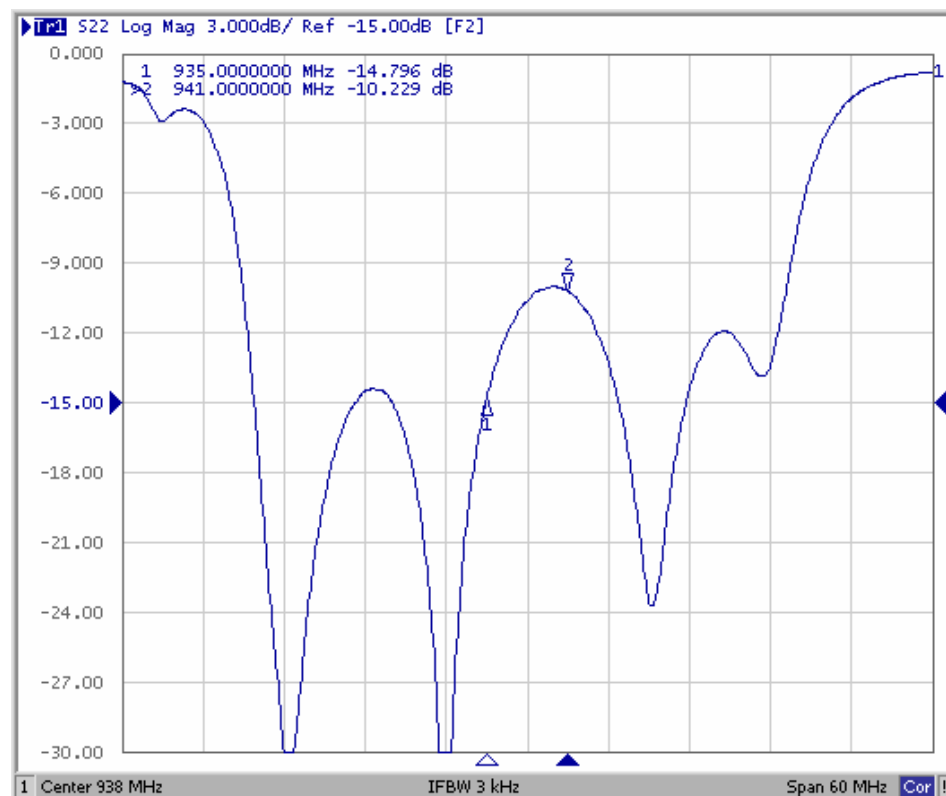
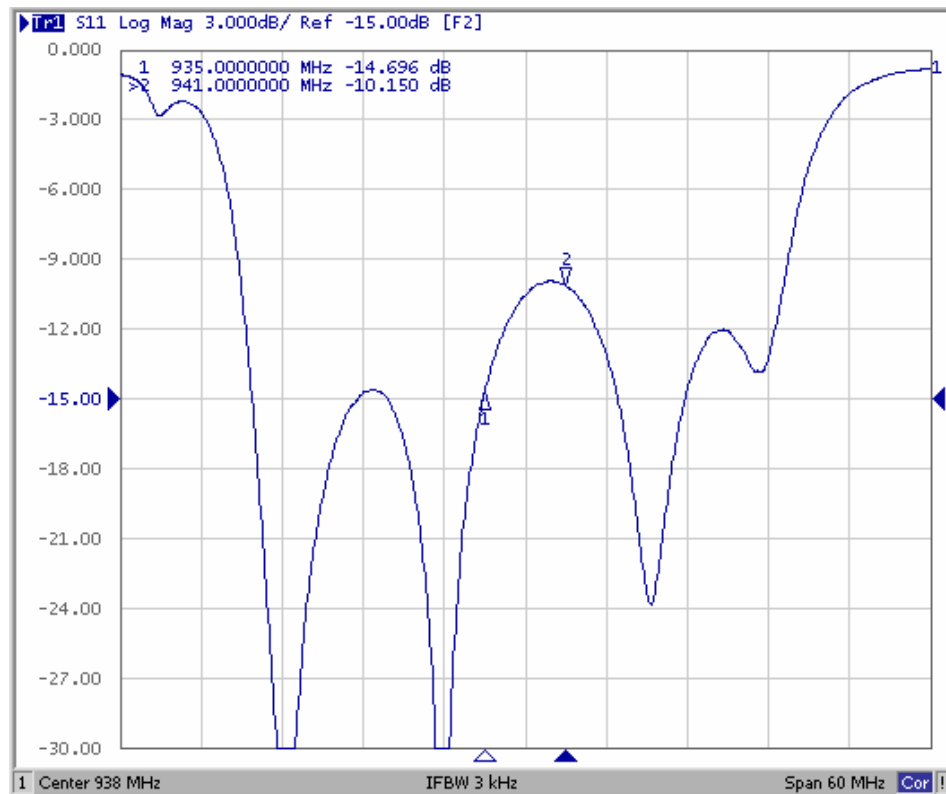
E. Frequency Characteristics : (Filter 1)





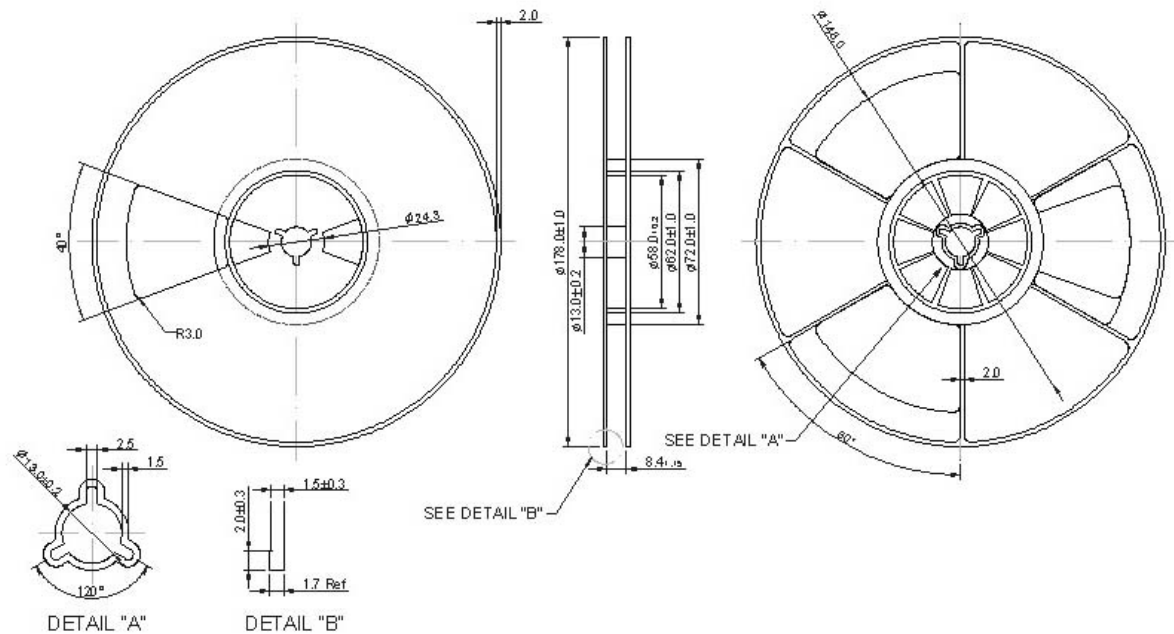
(Filter 2)



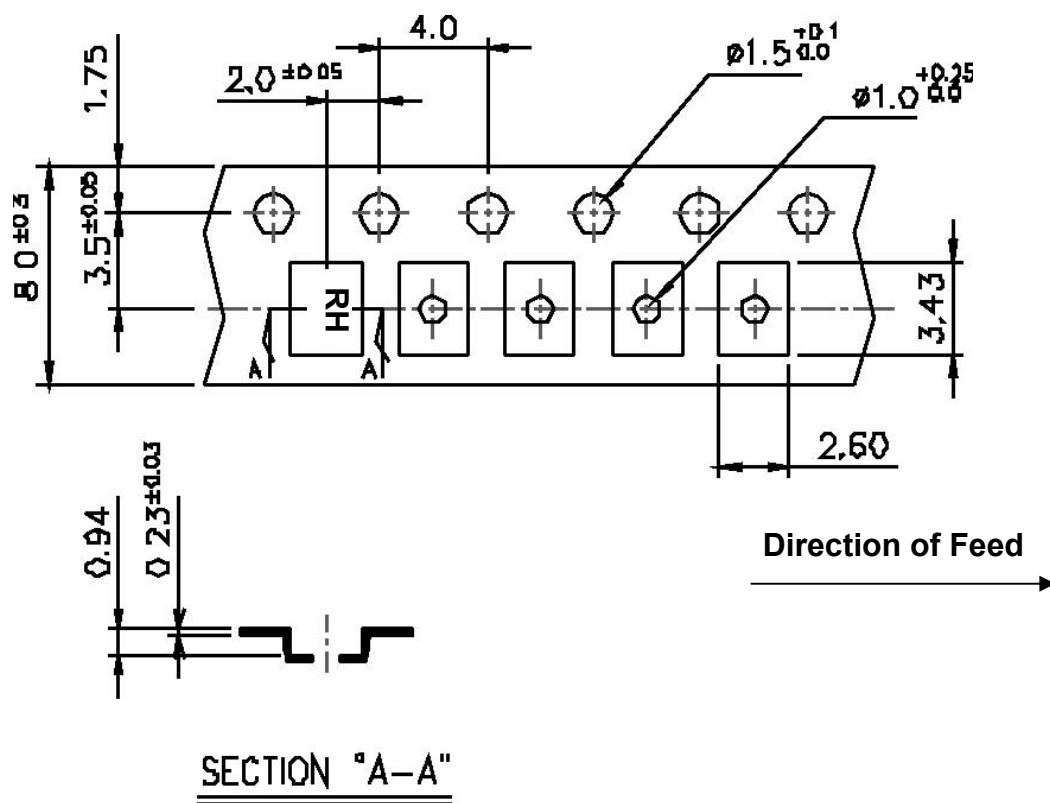


F. PACKING:

1. REEL DIMENSION



2.TAPE DIMENSION



G. RECOMMENDED REFLOW PROFILE :

