



TAI-SAW TECHNOLOGY CO., LTD.

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

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 881.5MHz SMD 2.5×2.0 mm

TST Parts No.:TA0321A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Elvis Chiu

Approval by:_____ Francis Chen

Date:_____ 2003/12/30



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SAW Filter 881.5 MHz

MODEL NO.: TA0321A

REV. No.: 2

A. MAXIMUM RATING:

1. Operating Temperature: -30°C ~ +85°C

2. Storage Temperature: -40°C ~ +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Singled to Balanced operation

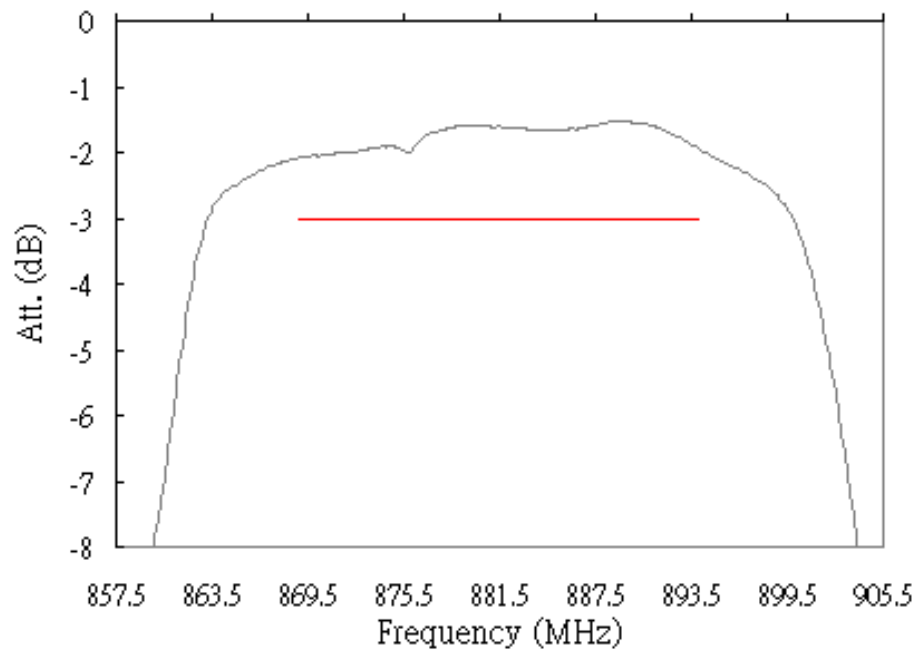
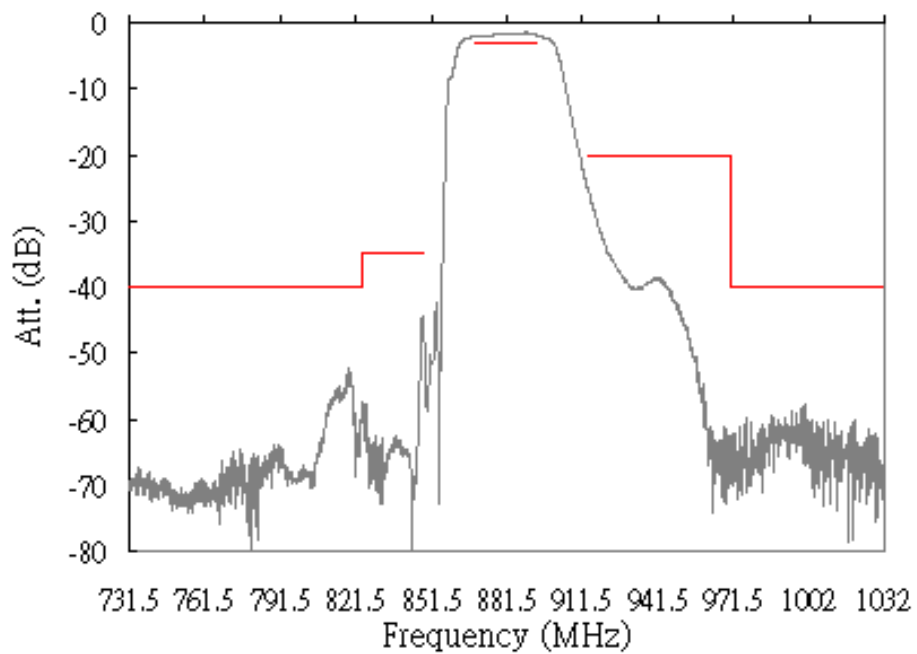
Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 200 \Omega // 100 \text{ nH}$

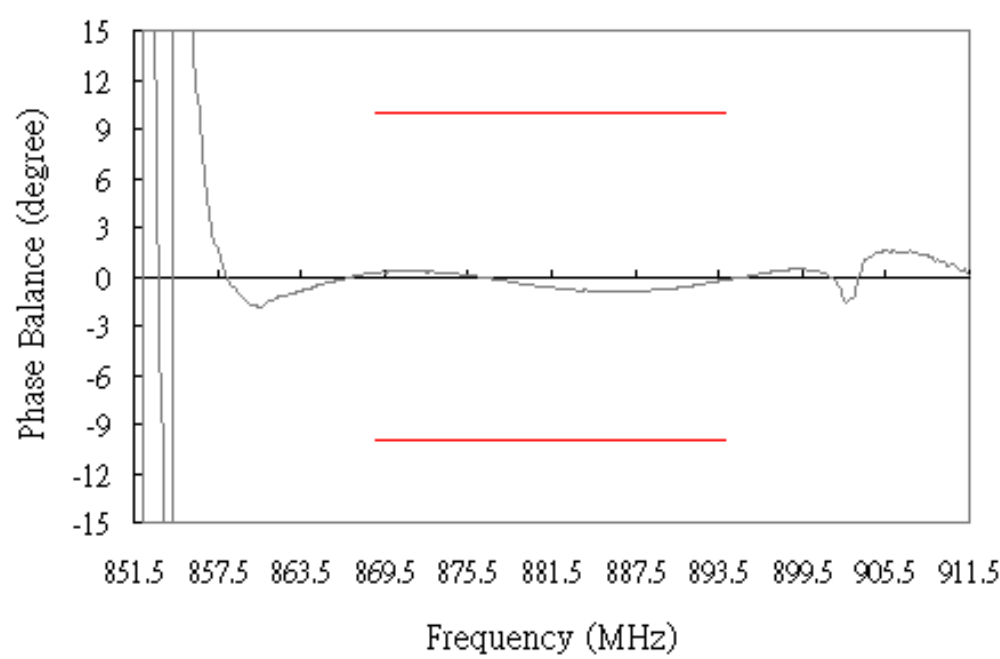
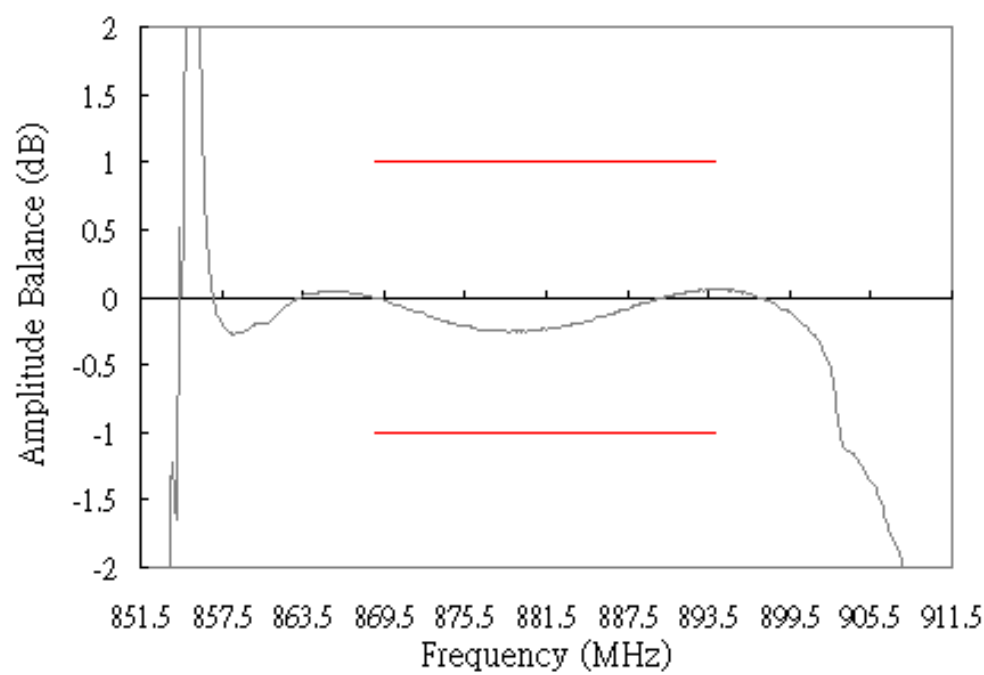
Item	Value			Unit
	Min.	Typ.	Max.	
Center frequency F_C	-	881.5	-	MHz
Insertion loss (869~894 MHz) I.L.	-	2.0	3.0	dB
VSWR (869~894 MHz)	-	1.5	2.1	
Attenuation: (Reference level from 0 dB)				
100 ~ 824 MHz	40	53	-	dB
824 ~ 849 MHz	35	44	-	dB
914 ~ 970 MHz	20	26	-	dB
970 ~ 3000 MHz	40	55	-	dB
3000 ~ 6000 MHz	35	51	-	dB
Symmetry in band (referenced to the matched operating condition)				
Output amplitude balance ($ S_{31}/S_{21} $) 869~894 MHz	-1.0	± 0.3	1.0	dB
Output phase balance ($\Phi(S_{31})-\Phi(S_{21})+180^\circ$) 869~894 MHz	-10	± 0.9	10	degree

C. Frequency Characteristics :

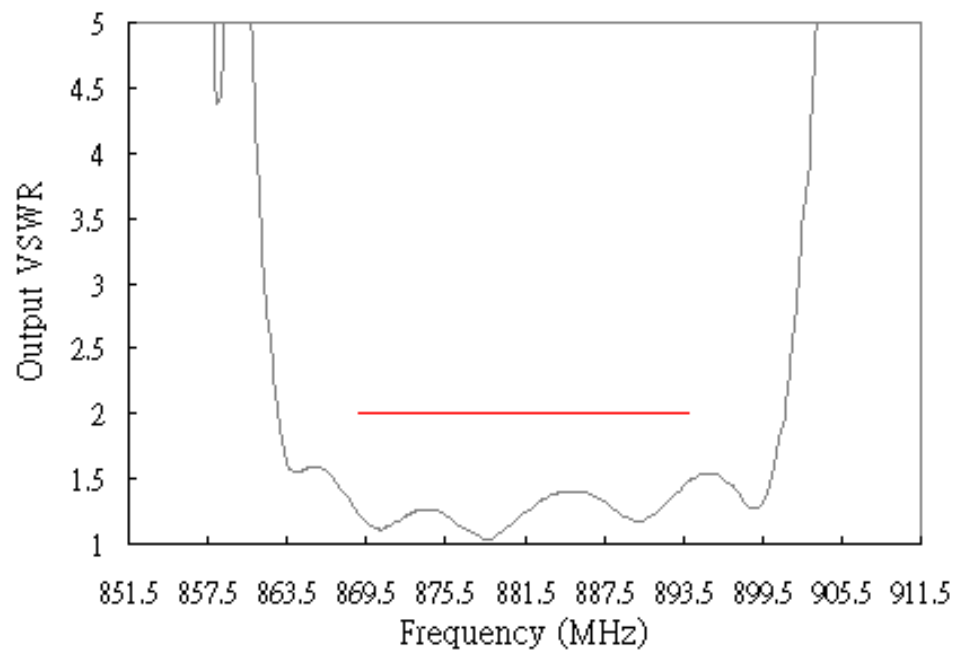
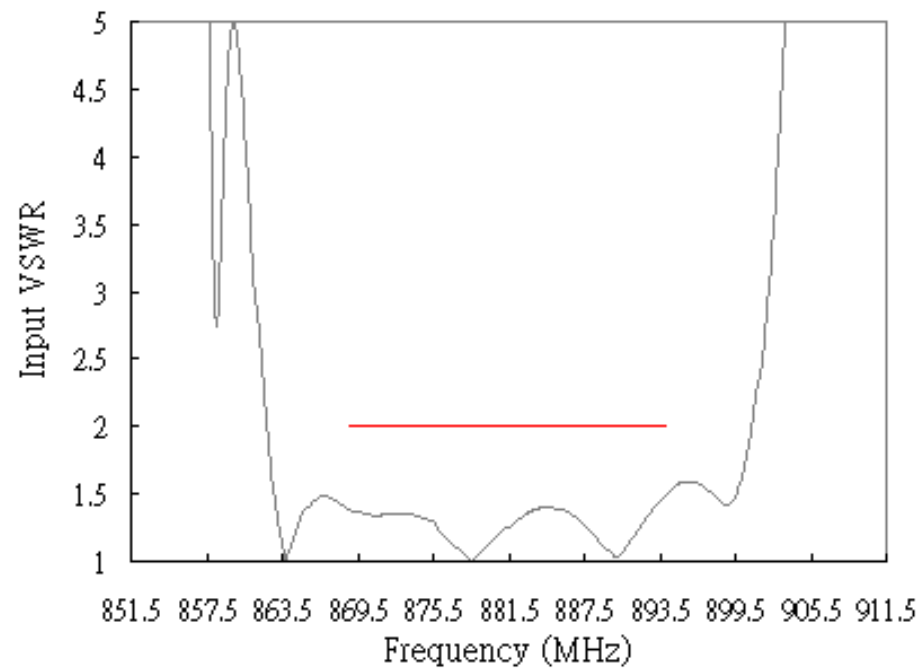
Transfer Function



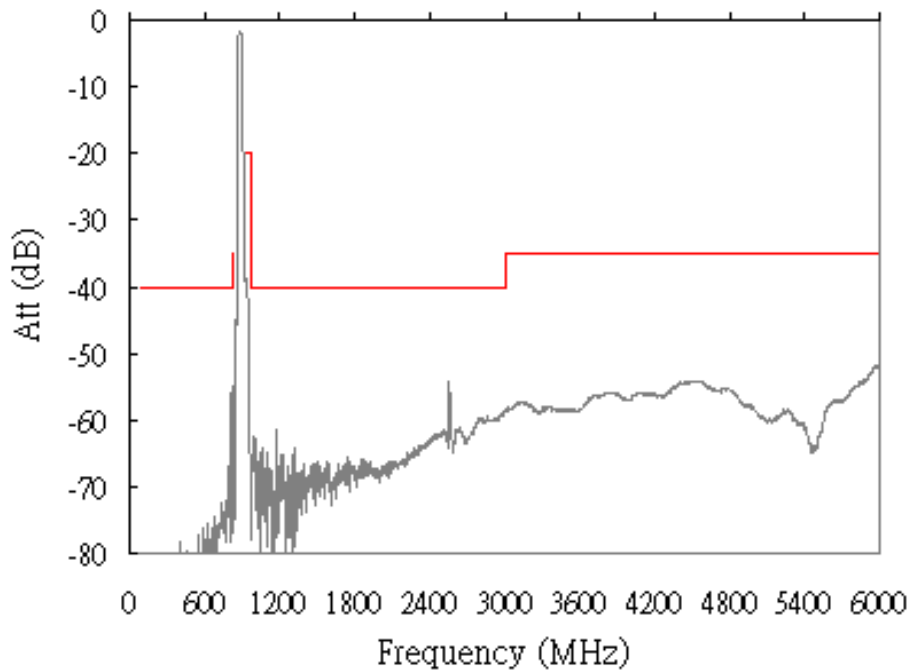
Amplitude/Phase Balance



Reflection Function



Wideband



D. ELECTRICAL CHARACTERISTICS:

Singled to Balanced operation

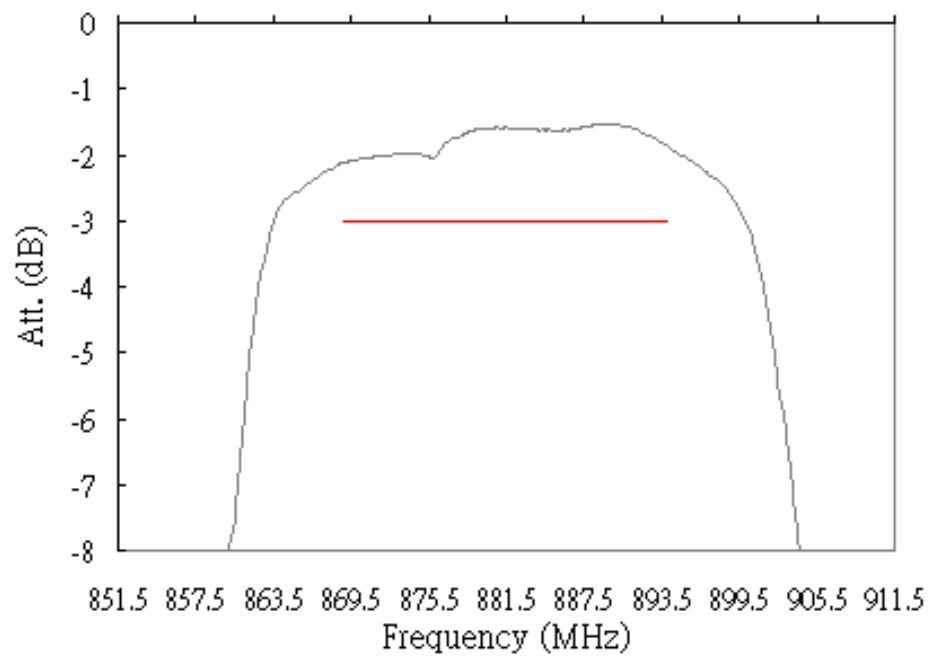
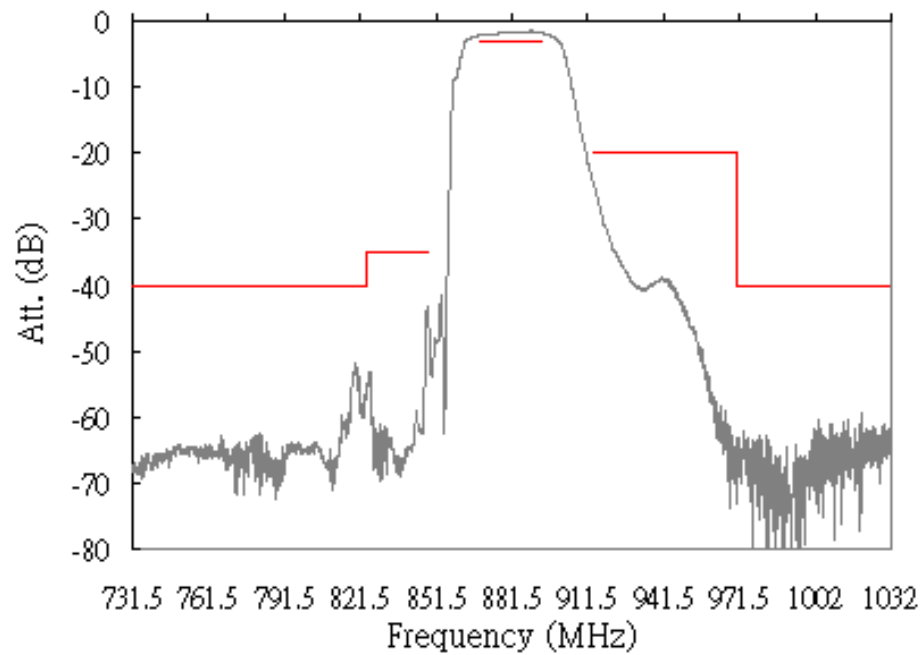
Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 100 \Omega$ add matching circuit

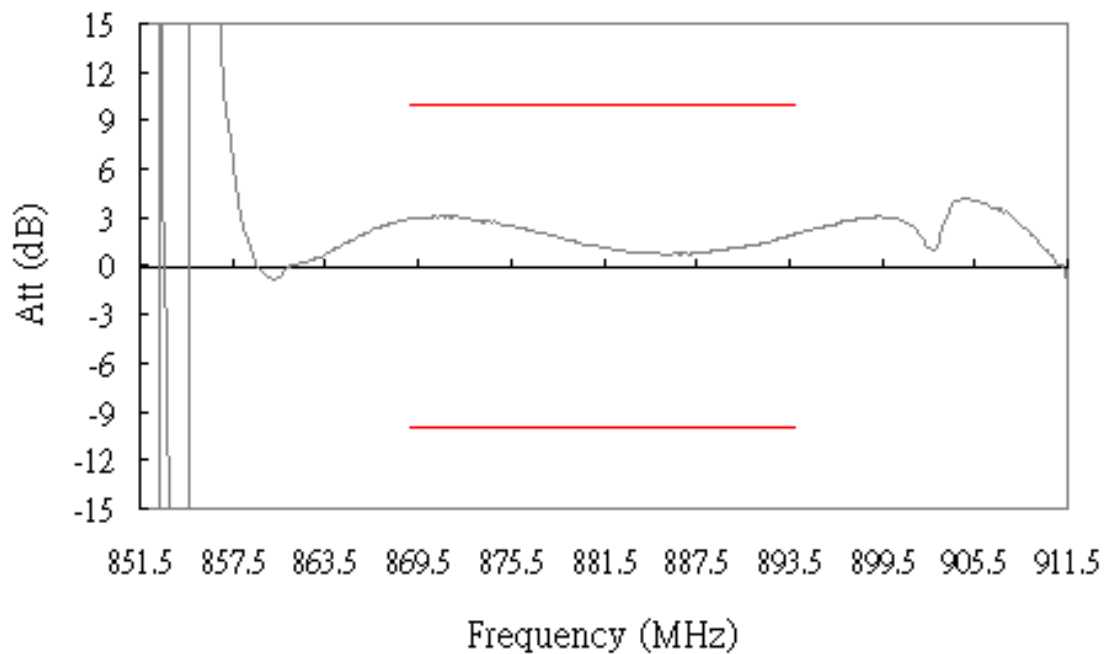
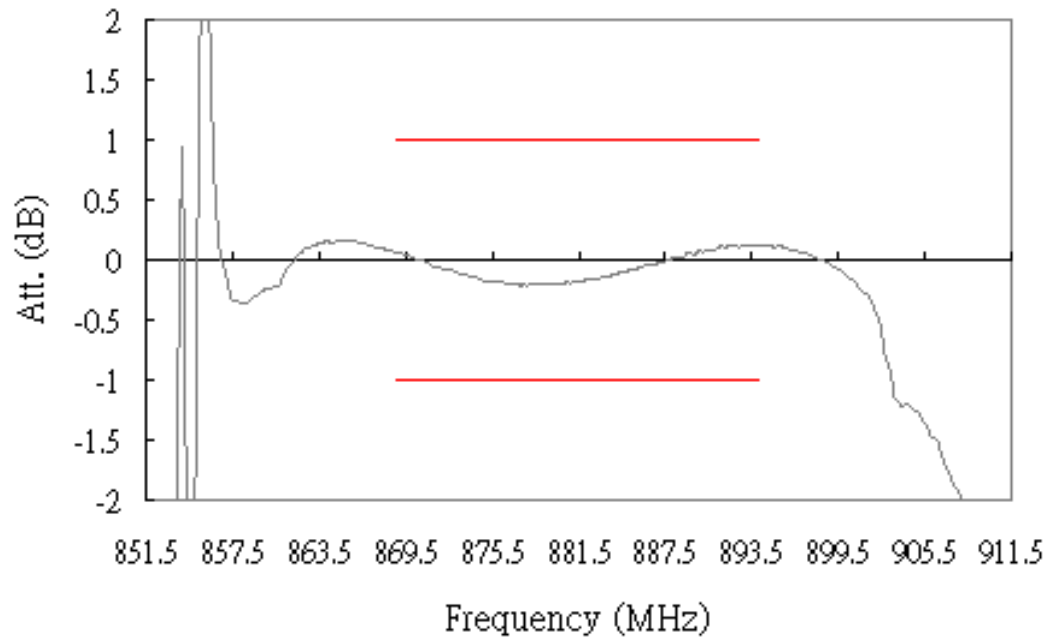
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Output phase balance ($\Phi(S_{31})-\Phi(S_{21})+180^\circ$) 869~894 MHz	-10	± 3	10	degree

C. Frequency Characteristics :

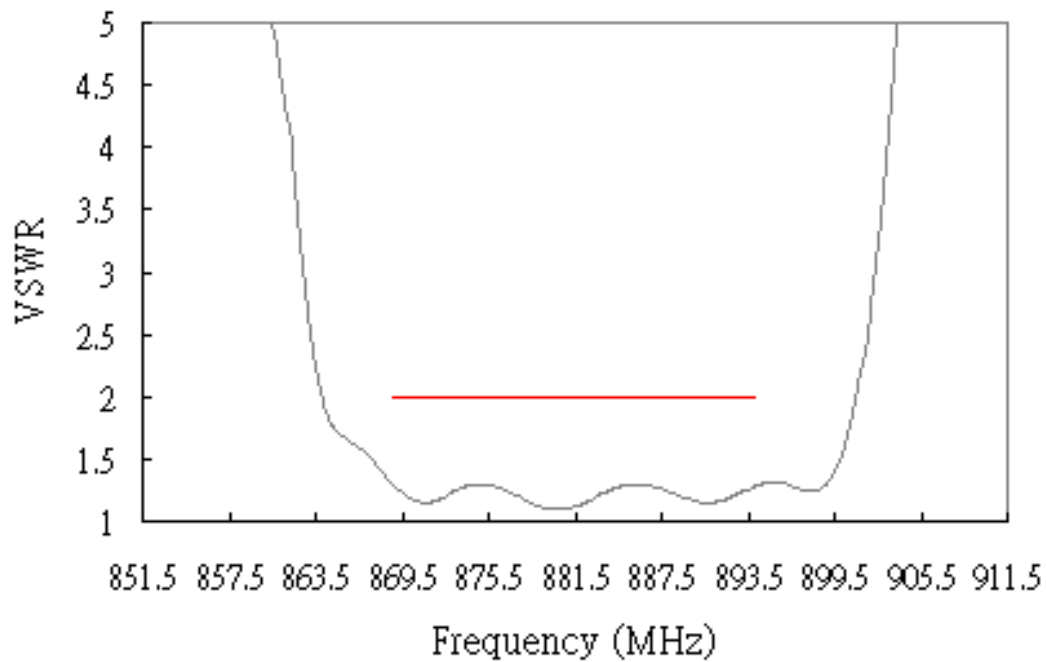
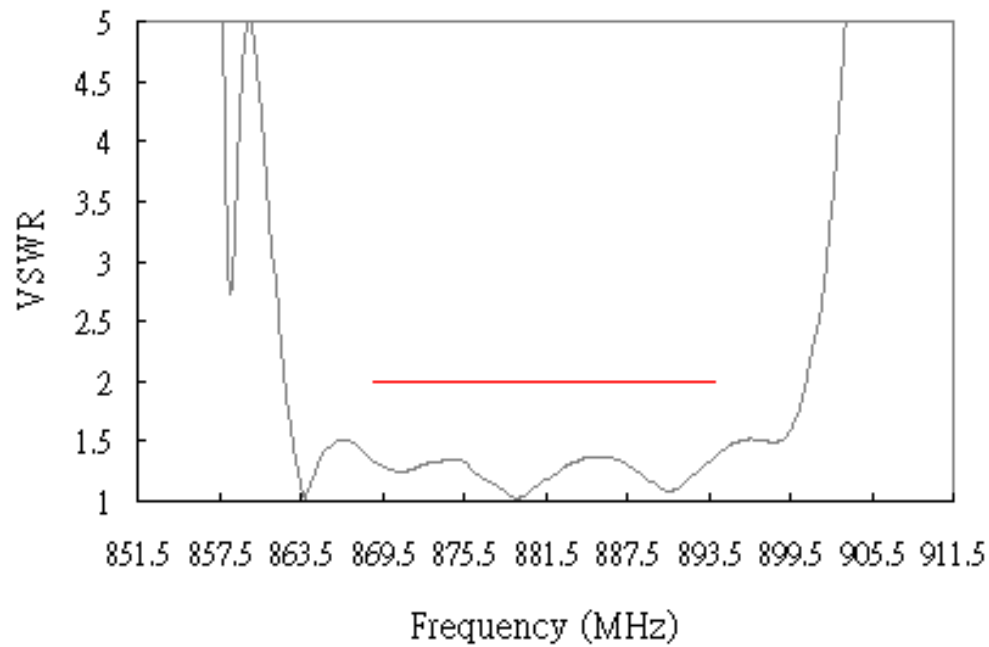
Transfer Function



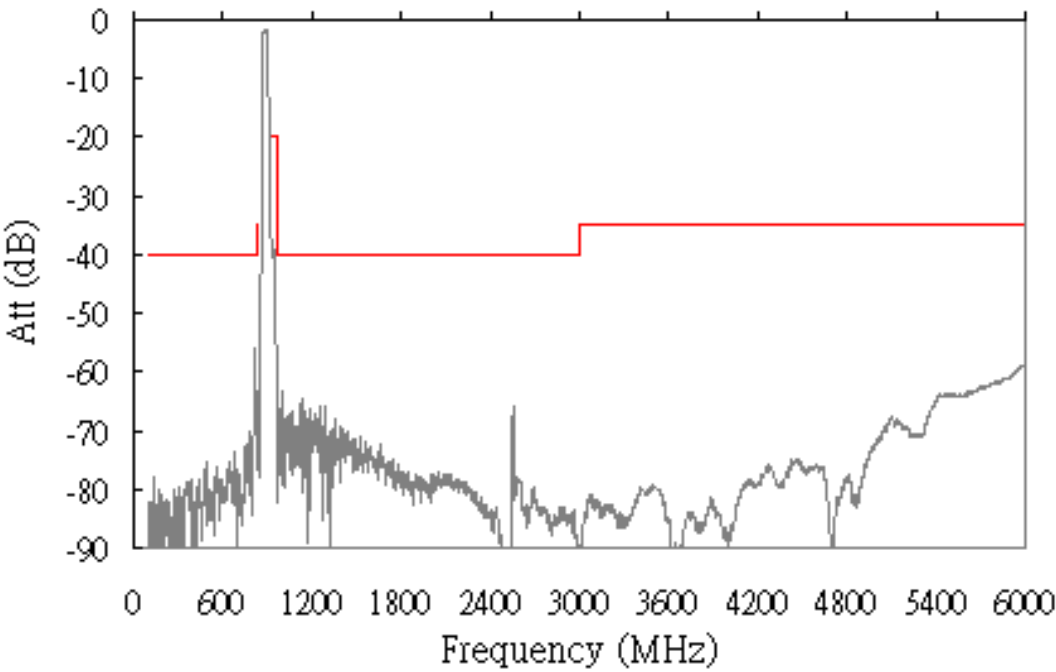
Amplitude/Phase Balance



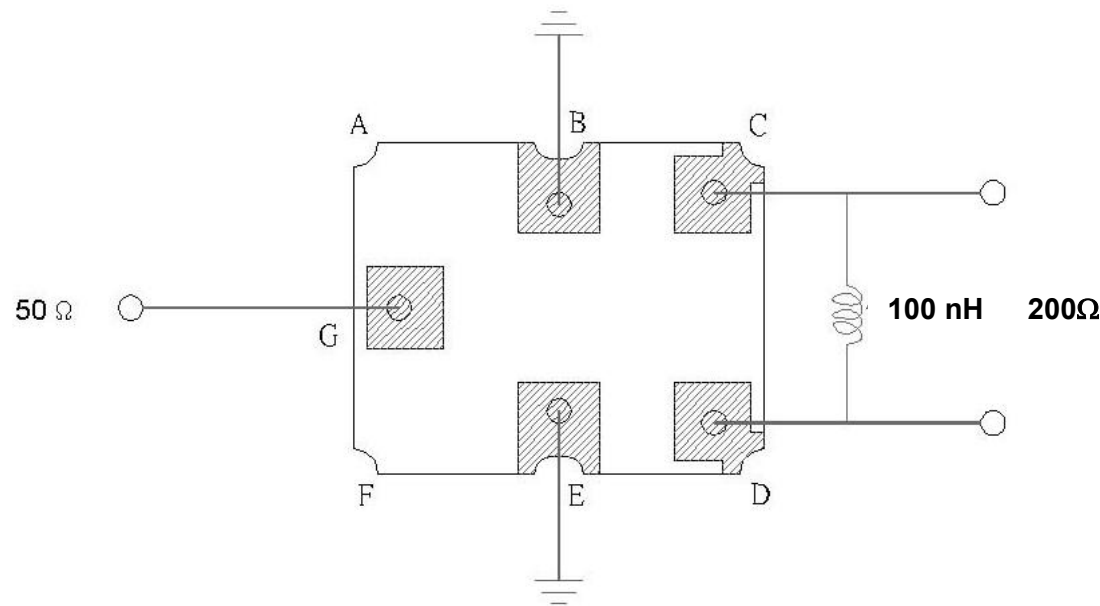
Reflection Function

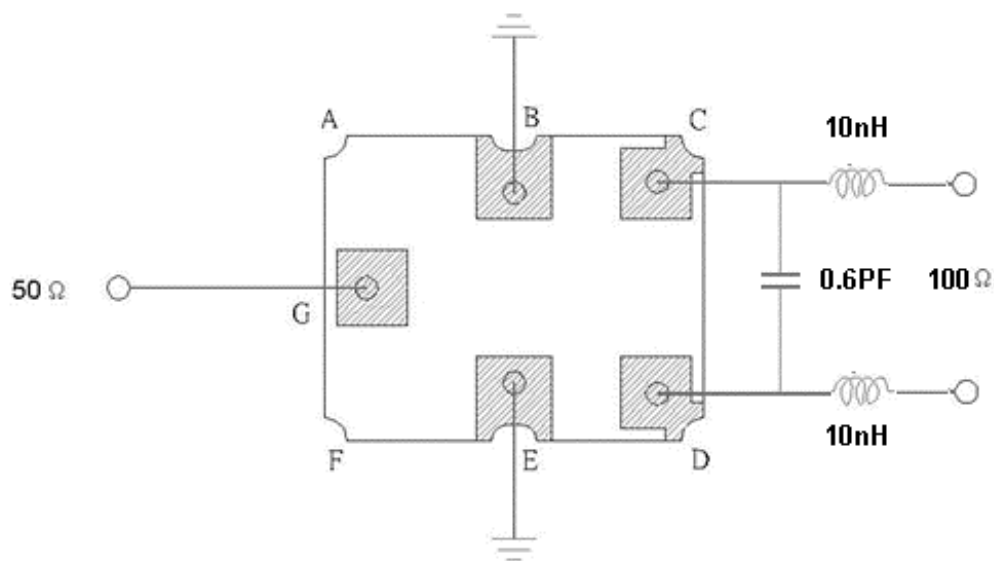


Wideband

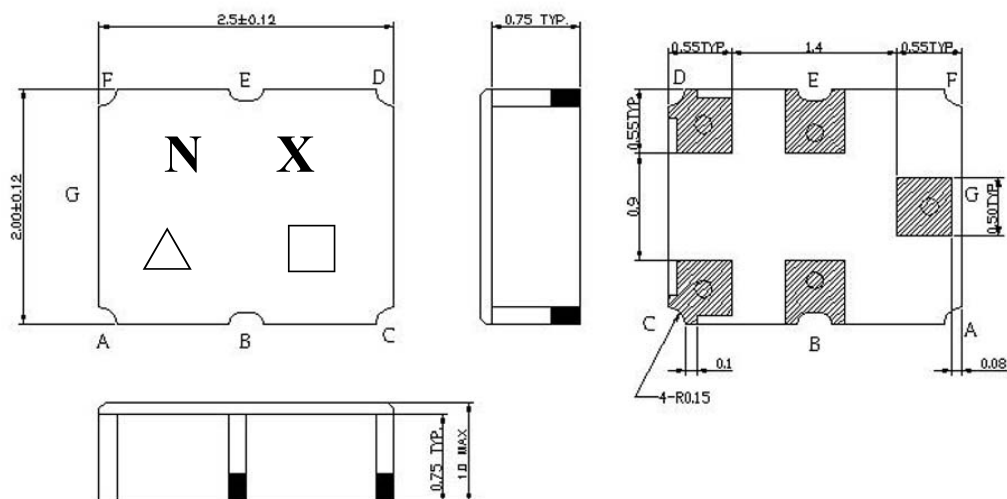


E. MEASUREMENT CIRCUIT:





F.OUTLINE DRAWING:

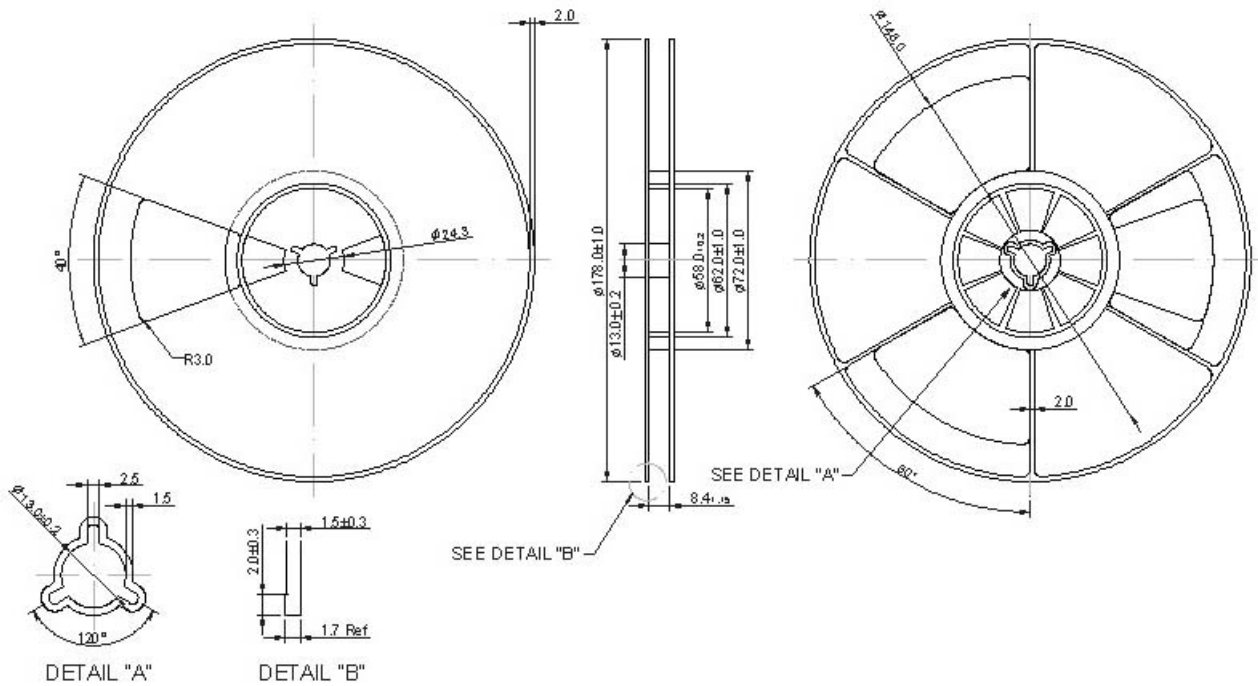


Pin configuration

- G : Unbalance input
- C,D : Balance output
- B,E : Ground
- △ : Year code
- : Date code
- Unit : mm

G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

