

SAW Filter 947.5 MHz For GSM

Model: TA947GG

Part No: MA04712

REV. NO.: 5

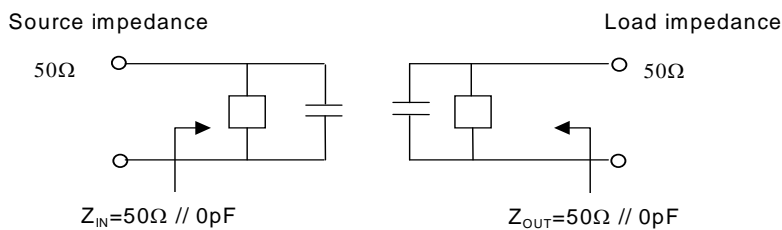
A. MAXIMUM RATING:

1. Input Power Level: +15 dBm
2. DC voltage: -5 ~ +5V
3. Operating Temperature: -30°C ~ +85°C
4. Storage Temperature: -40°C ~ +85°C

B. ELECTRICAL CHARACTERISTICS:

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	947.5	-	-
Insertion loss(935~960 MHz) I.L. dB	-	2.7	3.5	-
V.S.W.R(935~960 MHz) dB	-	1.6	2.3	-
Ripple(935~960 MHz) dB	-	0.6	1.4	-
Attenuation:(Reference level from 0 dB)				
1) D.C. ~ 871 MHz dB	50	62.1	-	-
2) 890 ~ 915 MHz dB	30	43.9	-	-
3) 980 ~ 1025 MHz dB	25	28.6	-	-
4) 1025 ~ 2000 MHz dB	45	54.1	-	-
5) 2000 ~ 3000 MHz dB	20	26.8	-	-
Impedance at F_c ; Input $Z_{IN}=R_{IN}/C_{IN}$	50Ω // 0 PF			1
Output $Z_{OUT}=R_{OUT}/C_{OUT}$	50Ω // 0 PF			1

Note1

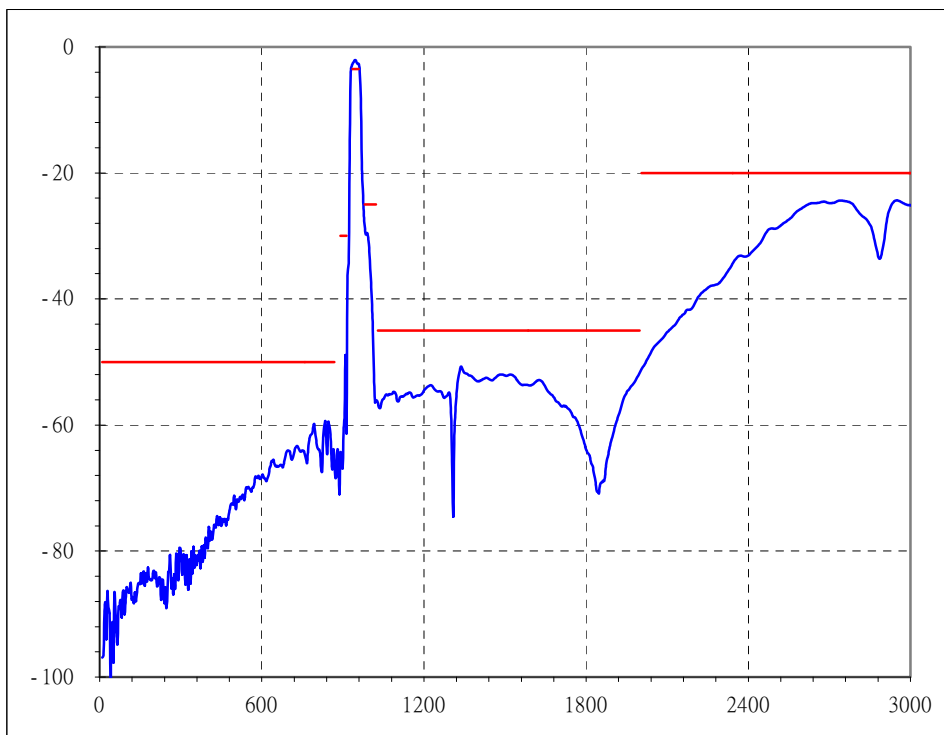
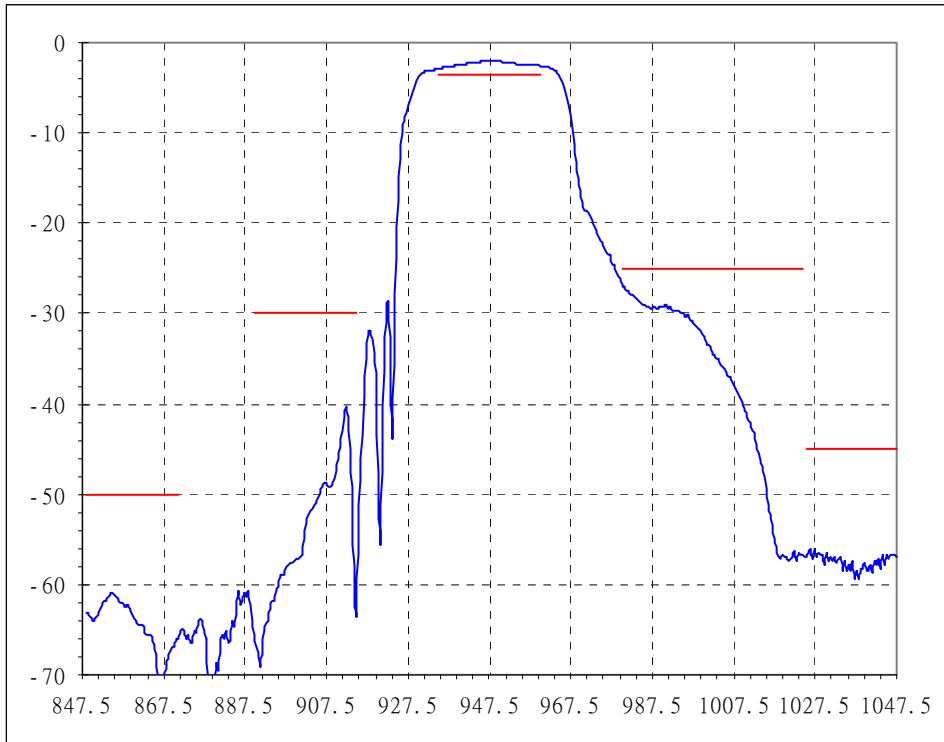


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C.FREQUENCY CHARACTERISTICS:

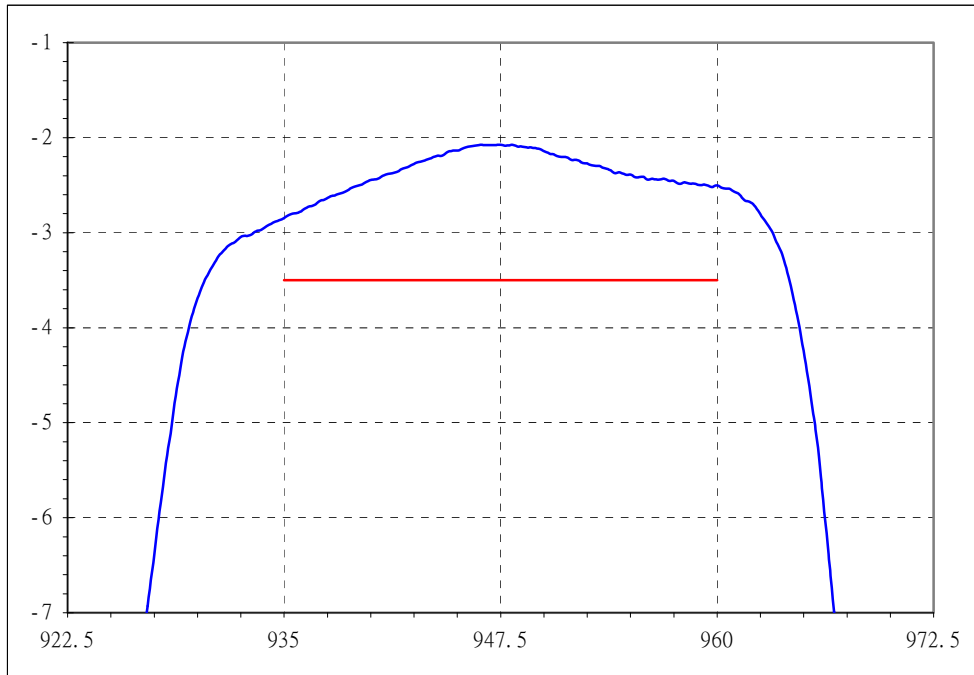
1. wideband response:



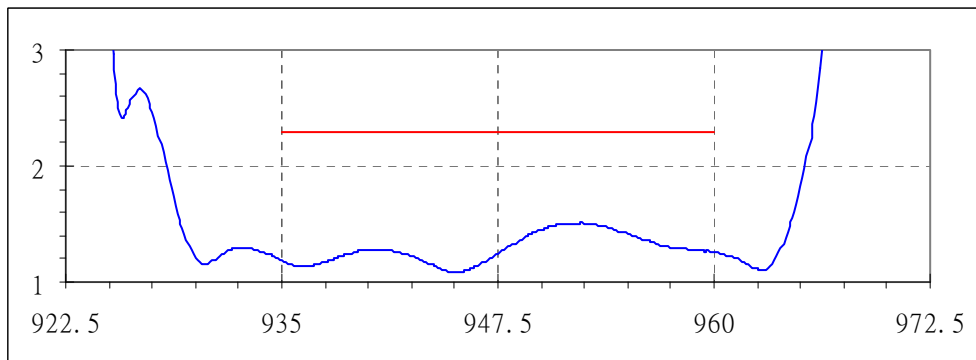
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passband response:



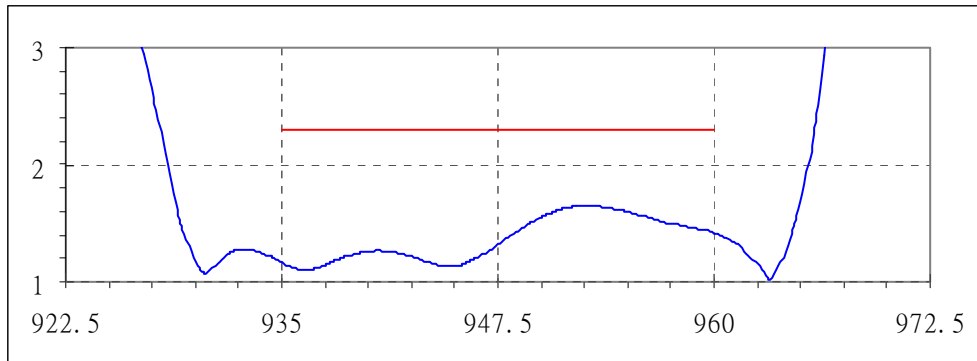
2. VSRW:
S11



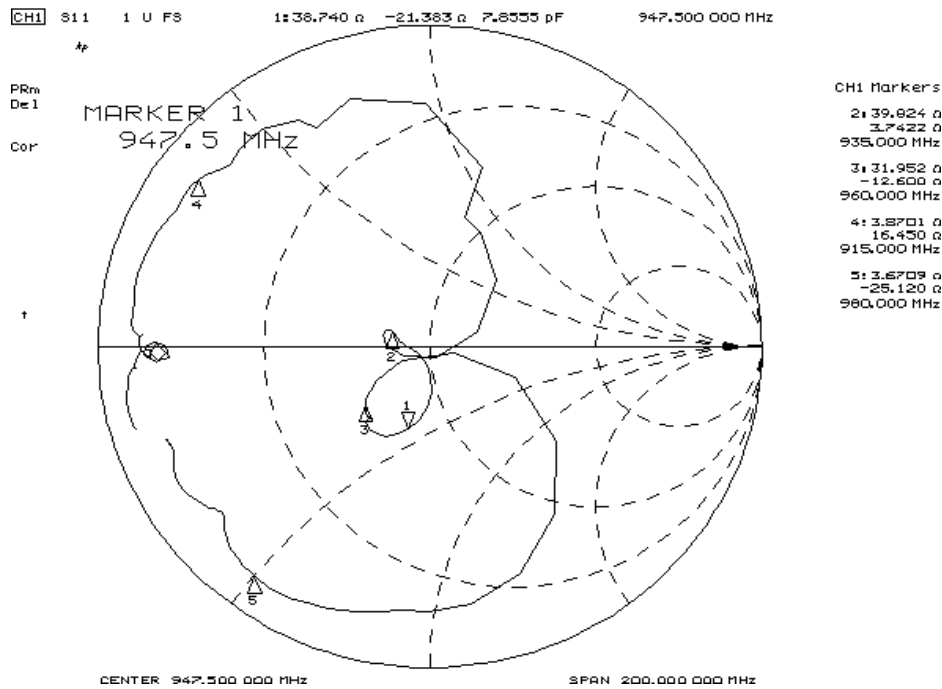
S22

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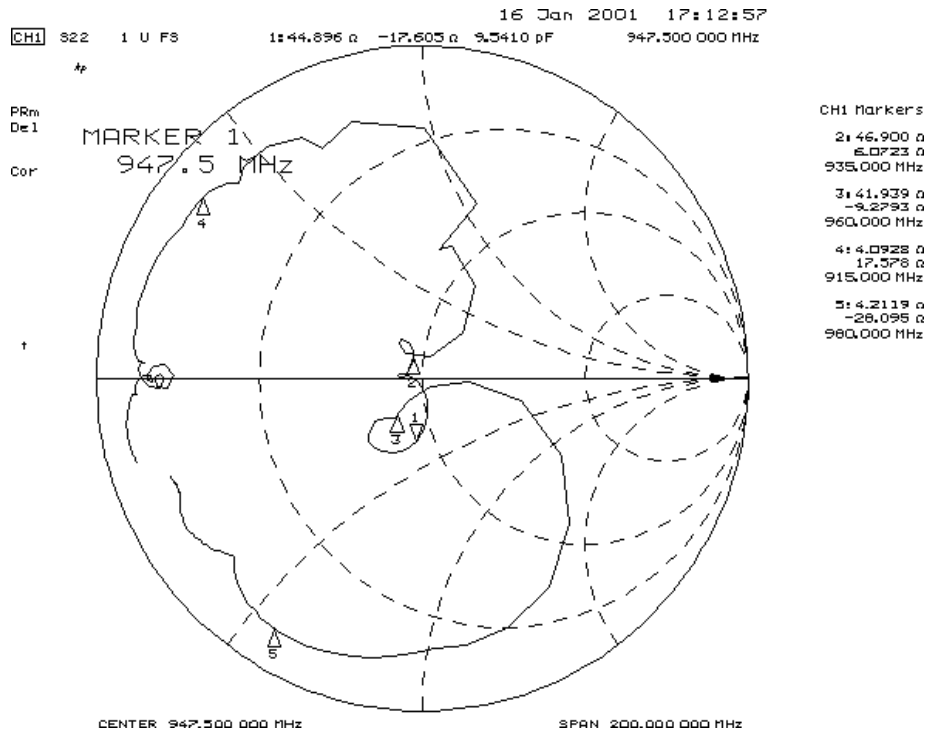
3. Smith chart of S11



4. Smith chart of S22

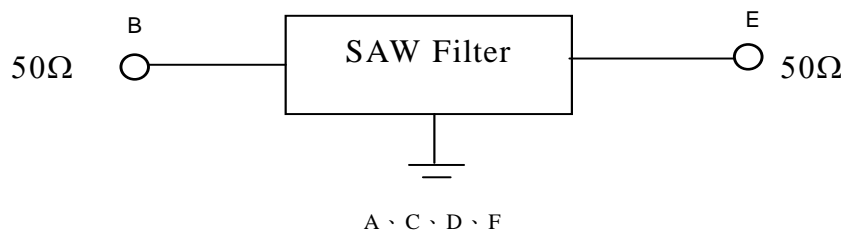
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D. MEASUREMENT CIRCUIT:

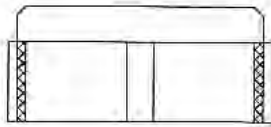
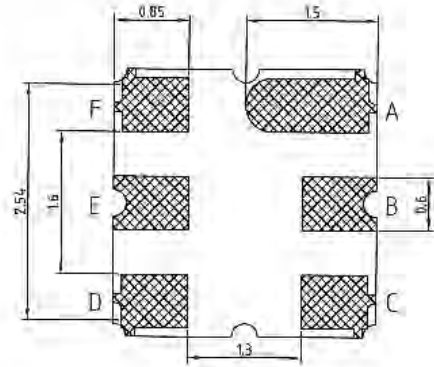
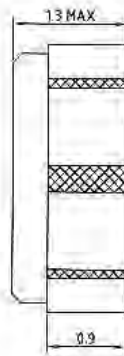
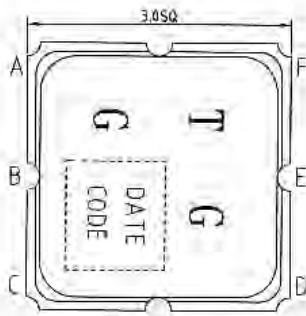
Network analyzer



E. OUTLINE DRAWING:

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B INPUT
E OUTPUT
A,C,D,F GROUND

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F. MECHANICAL & ENVIRONMENTAL CHARACTERISTICS:

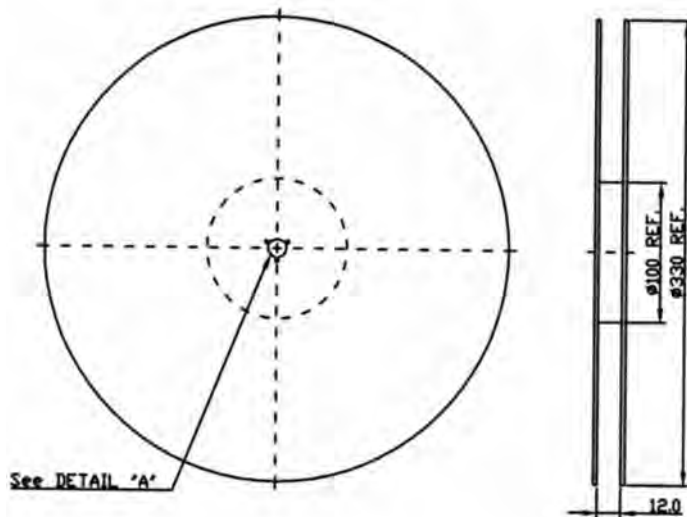
Test Item	Condition of Test	Requirements
Shock (Drop test)	random free drops 3 times from height of 1.0 meter onto hardwood board.	The specimens shall meet the electrical specifications
Vibration	Total peak amplitude : 1.5mm Vibration frequency : 10 to 55 Hz Sweep period : 1.0 minute Vibration directions : 3 mutually perpendicular Duration : 2 hr / direc.	
Solderability (solder heat)	immersed pad in soldering bath at 245±5°C for 5±0.5 seconds.	75% or more of the immersed surface shall be covered with solder
Temperature Characteristics	Specimens shall be measured within -30°C to +85°C temperature range	The specimens shall meet the electrical specifications
Dry heat (Aging test)	Temperature : 125 ± 2 °C Duration : 250 hours	
Cold resistance	Temperature : -40 ± 3 °C Duration : 96 hours	
Thermal Shock	Heat cycle conditions -55 C 25 C 85 C (30 min) (5 min) (30 min) Cycle time : 5 times	

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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

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