
SAW Filter 947.5 MHz for Mobile Communication**Model: TA947FG****Part No: MA04711****REV. NO.: 2**

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

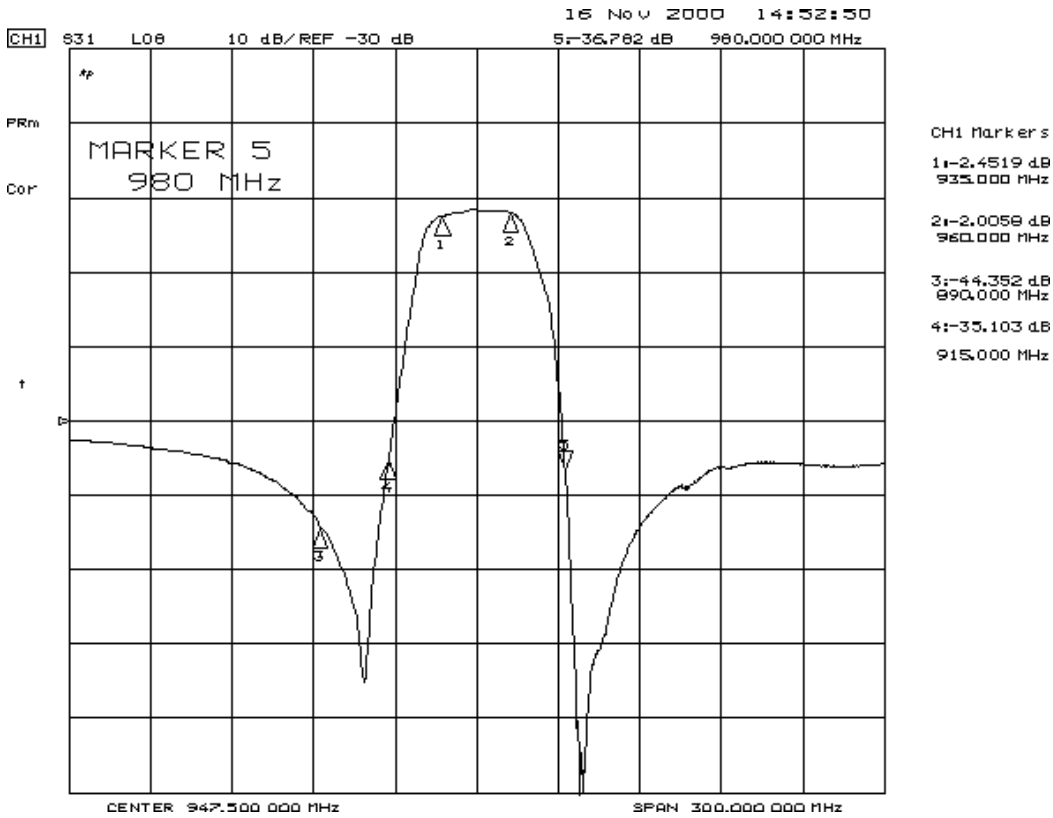
Characteristics	Min.	Typ.	Max.
Center frequency F_c (dB)	-	947.5	-
Insertion loss within 935 ~960 MHz IL (dB)	-	2.4	3.0
Amplitude ripple (p-p) within 935 ~ 960 MHz (dB)	-	1.0	2.0
Attenuation (Reference level from 0 dB)			
10 ~ 890 MHz (dB)	28.0	32.0	-
890 ~ 915 MHz (dB)	20.0	35.0	-
980 ~ 1025 MHz (dB)	15.0	30.0	-
1025 ~ 2000 MHz (dB)	30.0	34.5	-
VSWR within 935 ~960 MHz	-	1.9	2.5
Source impedance Z_s (Ω)	-	50	-
Load impedance Z_L (Ω)	-	50	-

Note1. No matching network required for operation at 50 Ω

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C. FREQUENCY CHARACTERISTICS:



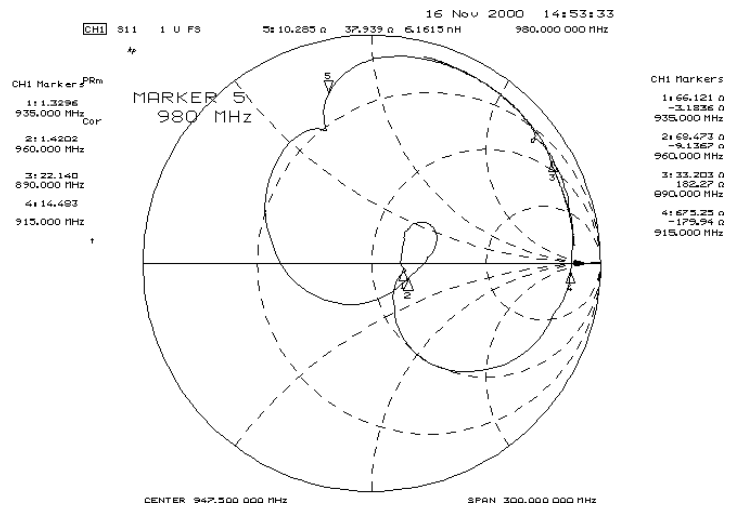
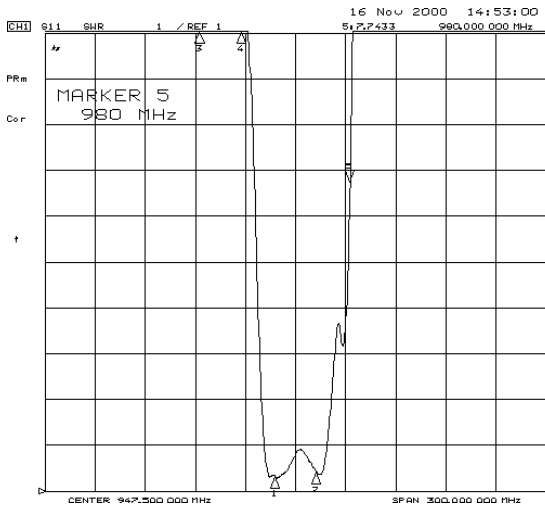
(wideband)

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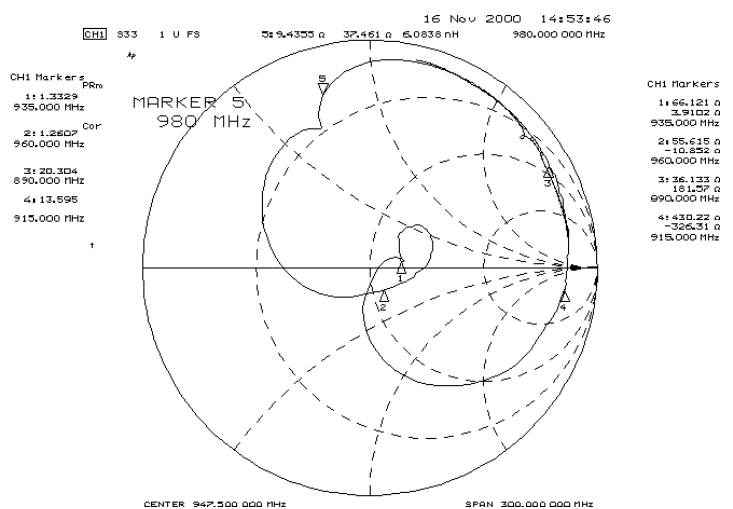
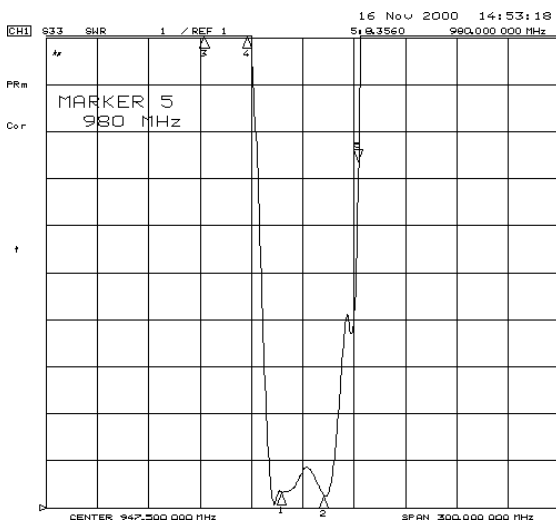
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D. REFLECTION FUNCTIONS:

S11 VSWR



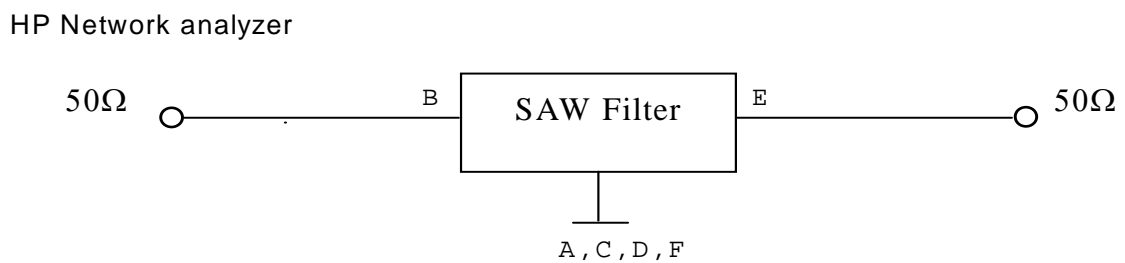
S22 VSWR



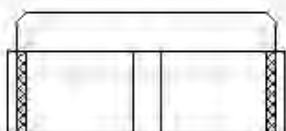
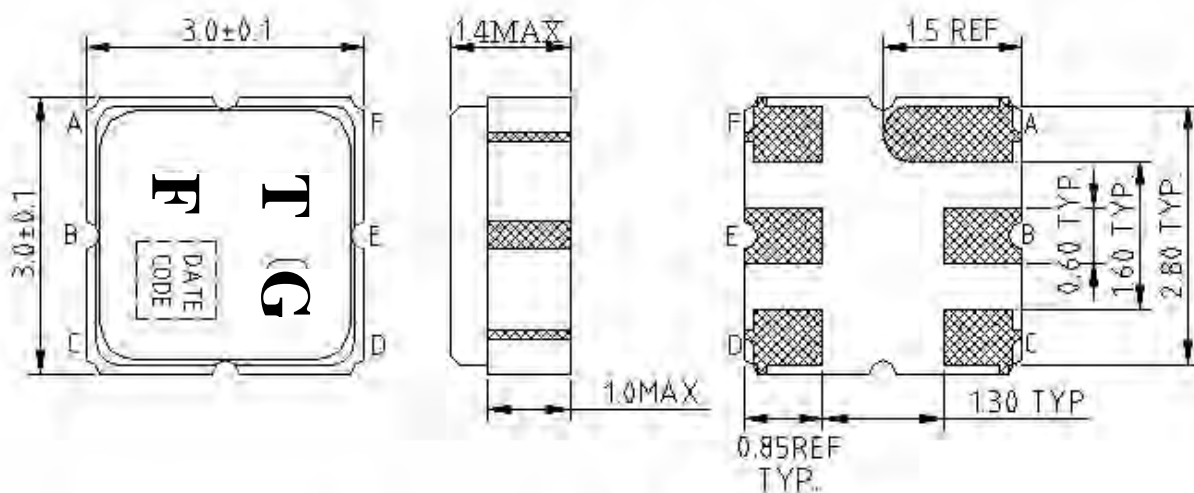
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E. MEASUREMENT CIRCUIT:



F. OUTLINE DRAWING:



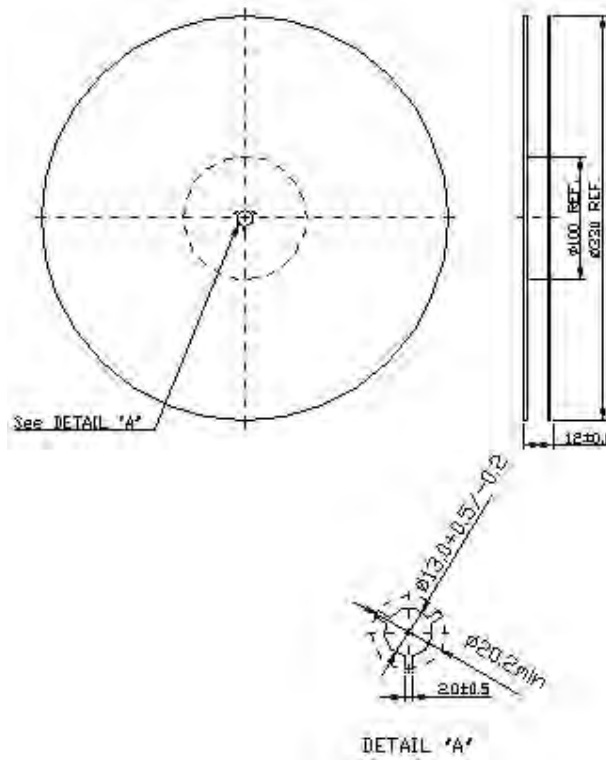
B INPUT
 E OUTPUT
 A,C,D,F GROUND
 DIMENSION : mm

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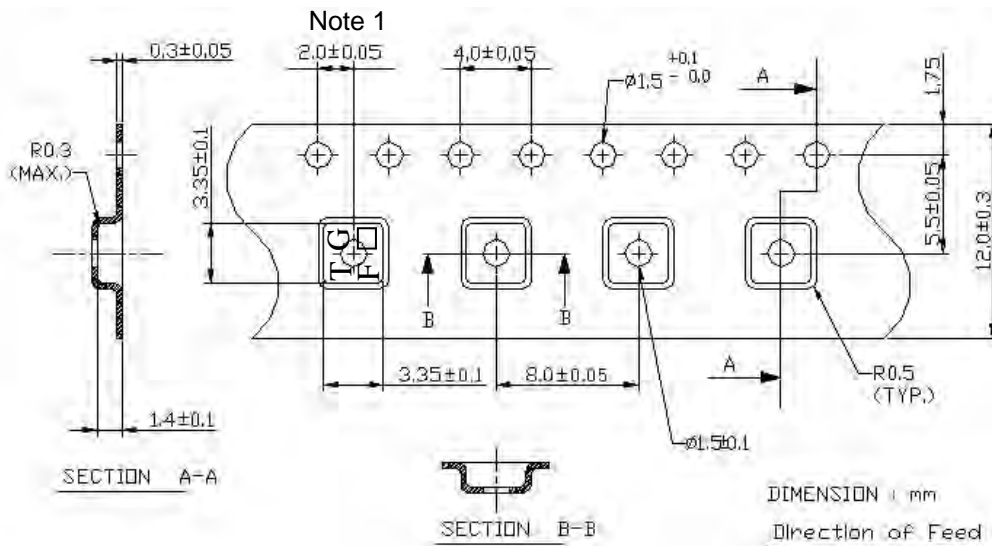
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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



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Note :

1. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.

G. Reflow Profile:

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H. SOLDERING PROFILE

1. Preheating shall be fixed at 140 ~ 160°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 200°C for 50 ~ 60 seconds and at 230±10°C peak.

