

SAW Filter 902.50MHz
Part No: MA09933

Model: TA0747A
Rev No: 2

A. MAXIMUM RATING:

1. Input Power Level: +20dBm
2. DC voltage: 5 V
3. Operating Temperature: -25°C to +75°C
4. Storage Temperature: -40°C to +85°C

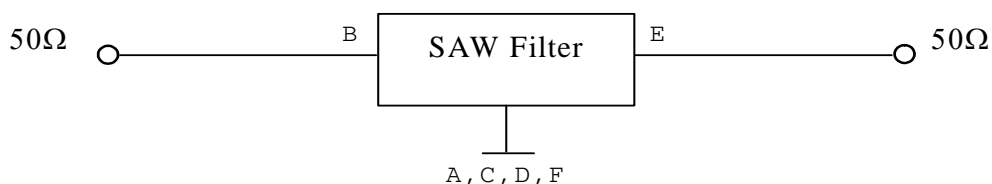
B. ELECTRICAL CHARACTERISTICS:

Characteristics	Min.	Typ.	Max.	Note
Center frequency F_C MHz	-	902.5	-	-
Insertion loss (890 ~ 915MHz) IL dB	-	2.9	3.5	-
VSWR (890 ~ 915MHz)	-	1.5	2.3	-
Ripple (890 ~ 915MHz) dB	-	0.5	1.5	-
Attenuation: (Reference level from 0dB)				
0 ~ 845MHz dB	45	51.0	-	-
925 ~ 935MHz dB	5	21.0	-	-
935 ~ 980MHz dB	25	28.0	-	-
980 ~ 1200 MHz dB	50	56.0	-	-
1200 ~ 3000 MHz dB	25	28.0	-	-
Impedance at F_C ; Input $Z_{IN} = R_{IN} // C_{IN}$	50Ω // 0pF			
Output $Z_{OUT} = R_{OUT} // C_{OUT}$	50Ω // 0pF			

Note: No matching network required for operation at 50Ω

C. MEASUREMENT CIRCUIT:

HP Network analyzer

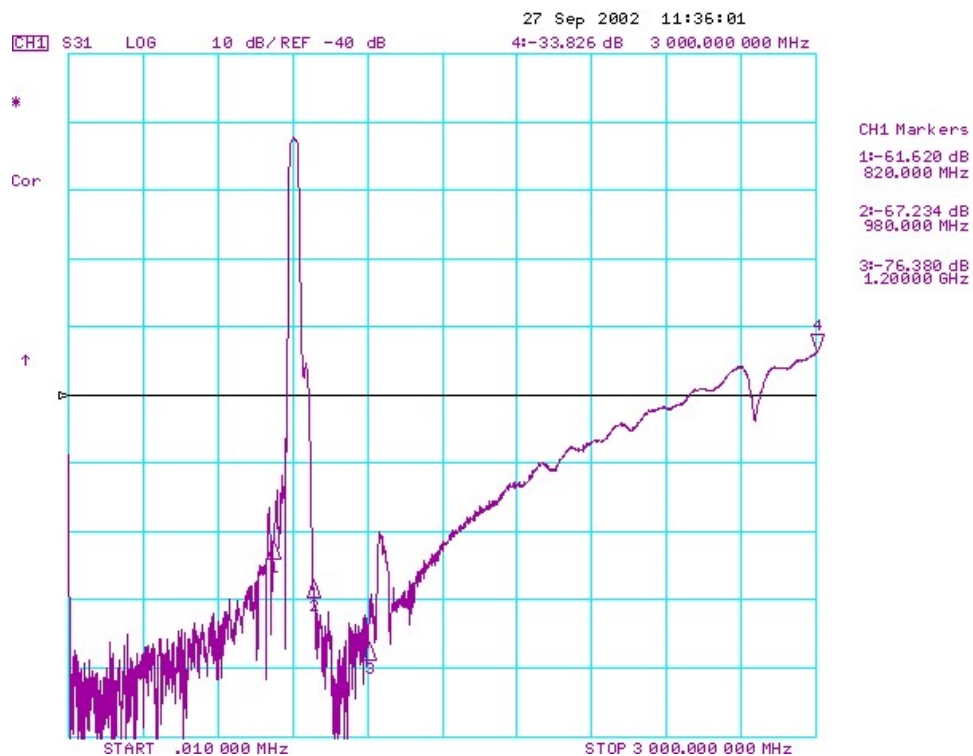
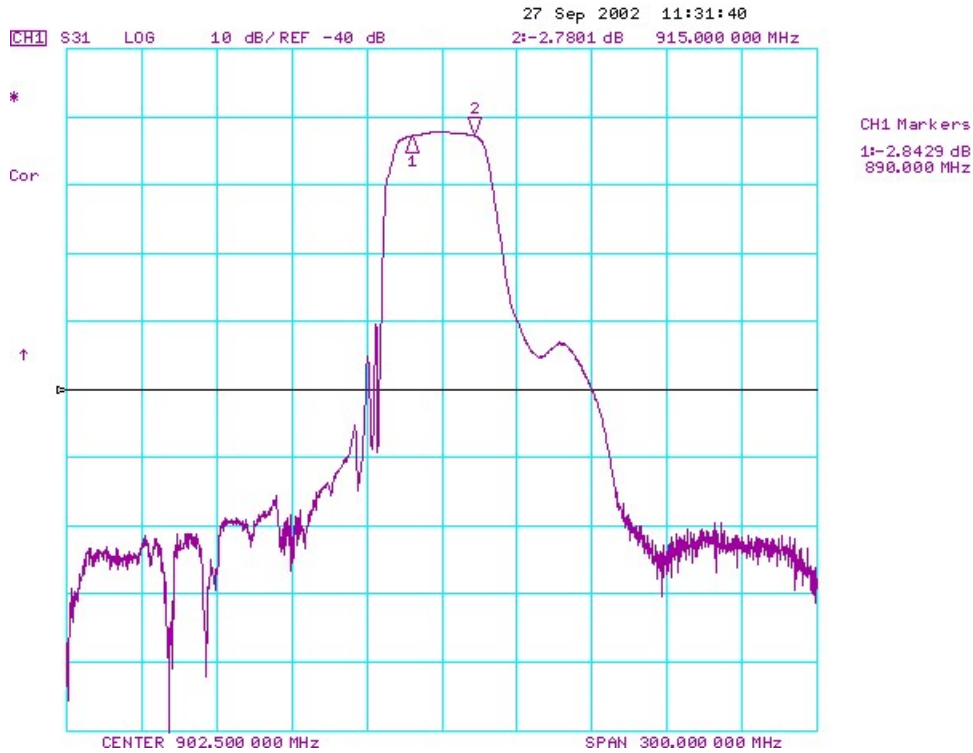


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D. FREQUENCY CHARACTERISTICS:

1. Wide band of S21

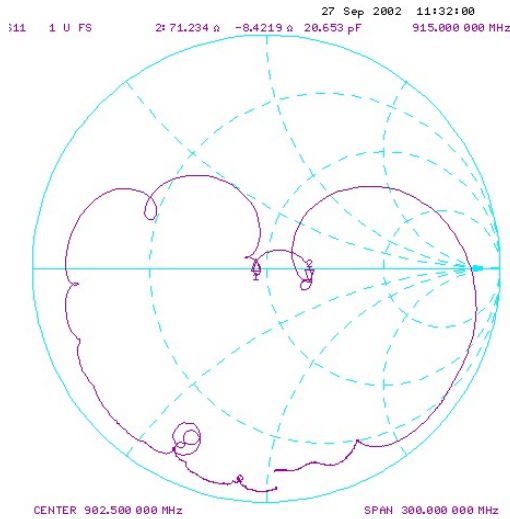


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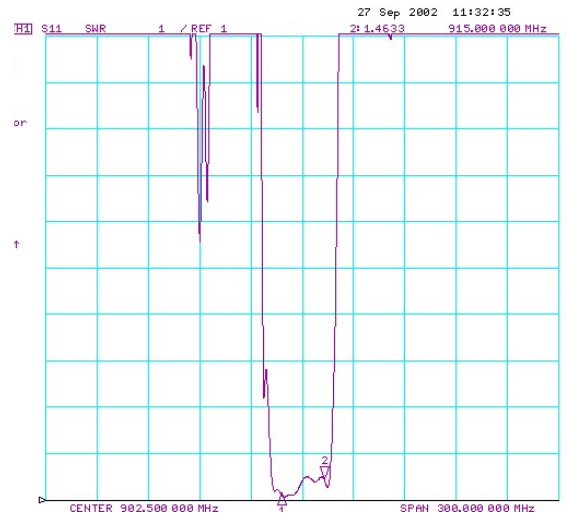
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2. Reflections Functions

S11

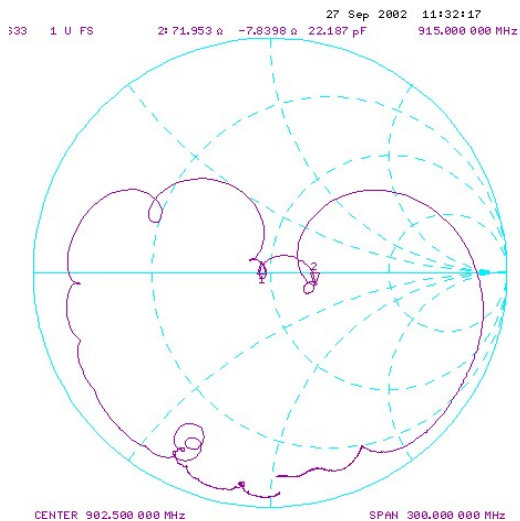


CH1 Markers
 1: 45.205 Ω
 3: 3.952 Ω
 990.000 MHz

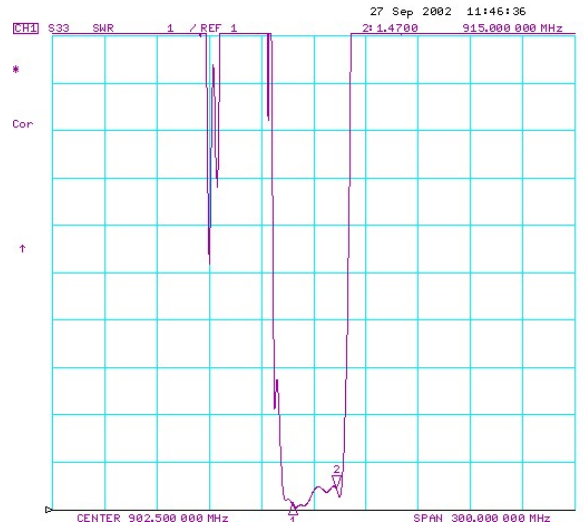


CH1 Markers
 1: 1.1308
 990.000 MHz

S22



CH1 Markers
 1: 1.1277
 990.000 MHz

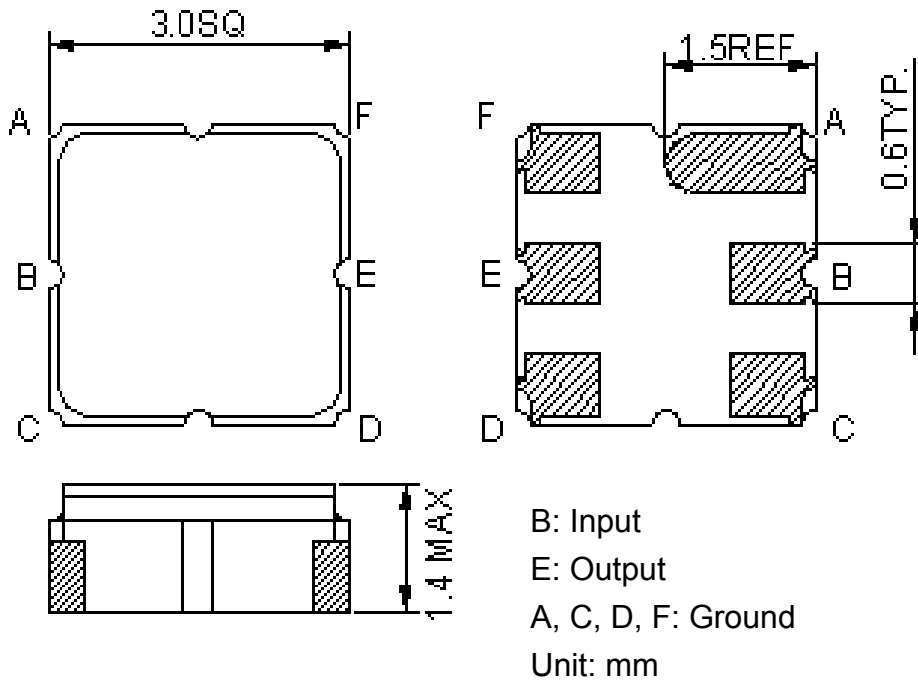


CH1 Markers
 1: 1.1277
 990.000 MHz

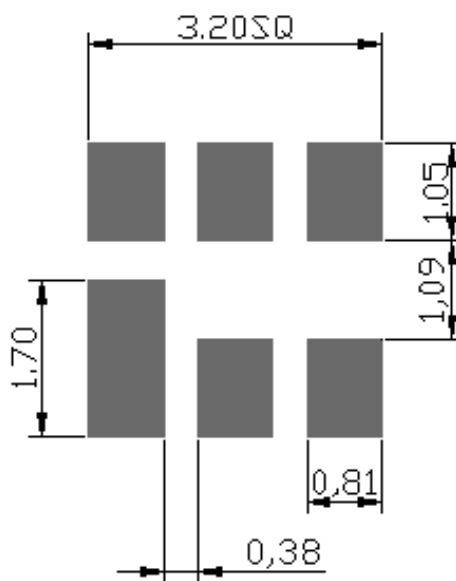
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E. OUTLINE DRAWING:



F. PCB FOOTPRINT:



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H. RECOMMENDED REFLOW PROFILE:

