

**SAW Filter 915.0MHz**  
**Part No: MP08160**

**Model: TA1042B**  
**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 27dBm Continuous Wave (1500 hours)
2. DC voltage: 5V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

**B. ELECTRICAL CHARACTERISTICS:**

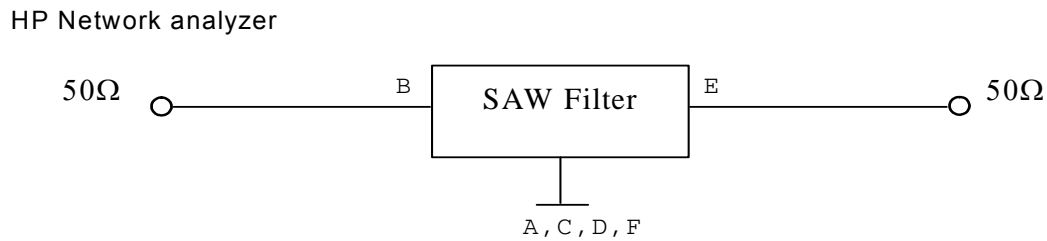
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	915	-
Insertion loss (902 ~ 928MHz) IL	dB	-	2.2	3.5
Amplitude ripple (902 ~ 928MHz)	dB	-	0.6	2.0
VSWR (902 ~ 928MHz)	-	-	1.6	2.3
Attenuation (Reference level from 0dB)				
D.C. ~ 800MHz	dB	50	63	-
800 ~ 880MHz	dB	40	48	-
960 ~ 1080MHz	dB	32	39	-
1080 ~ 1500MHz	dB	45	65	-
1500 ~ 3000MHz	dB	22	28	-
Source impedance Z <sub>S</sub>	Ω	-	50	-
Load impedance Z <sub>L</sub>	Ω	-	50	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-

Note. No matching network required for operation at 50 Ω

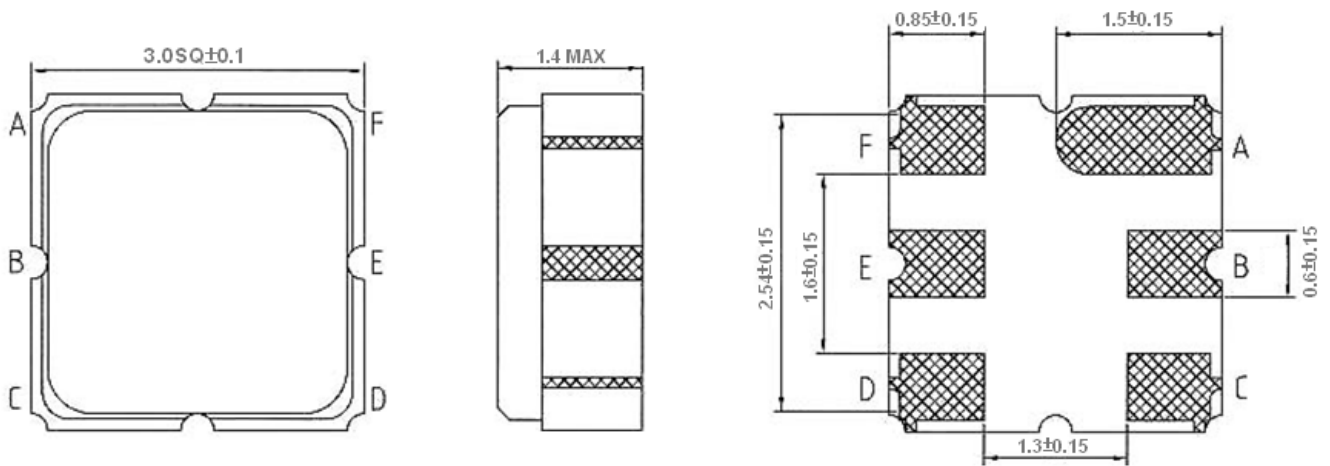
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**C. MEASUREMENT CIRCUIT:**

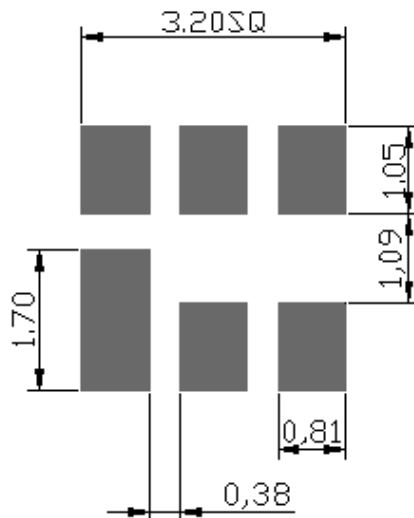


**D. OUTLINE DRAWING:**



B: Input  
 E: Output  
 A, C, D, F: Ground  
 Unit: mm

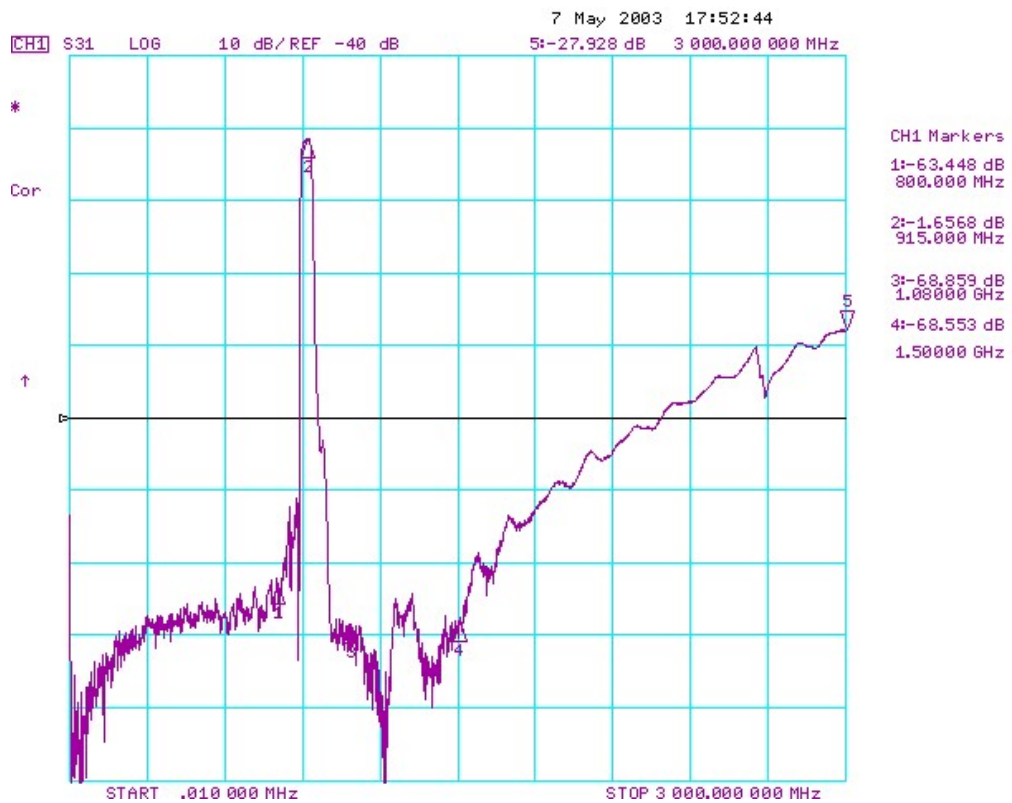
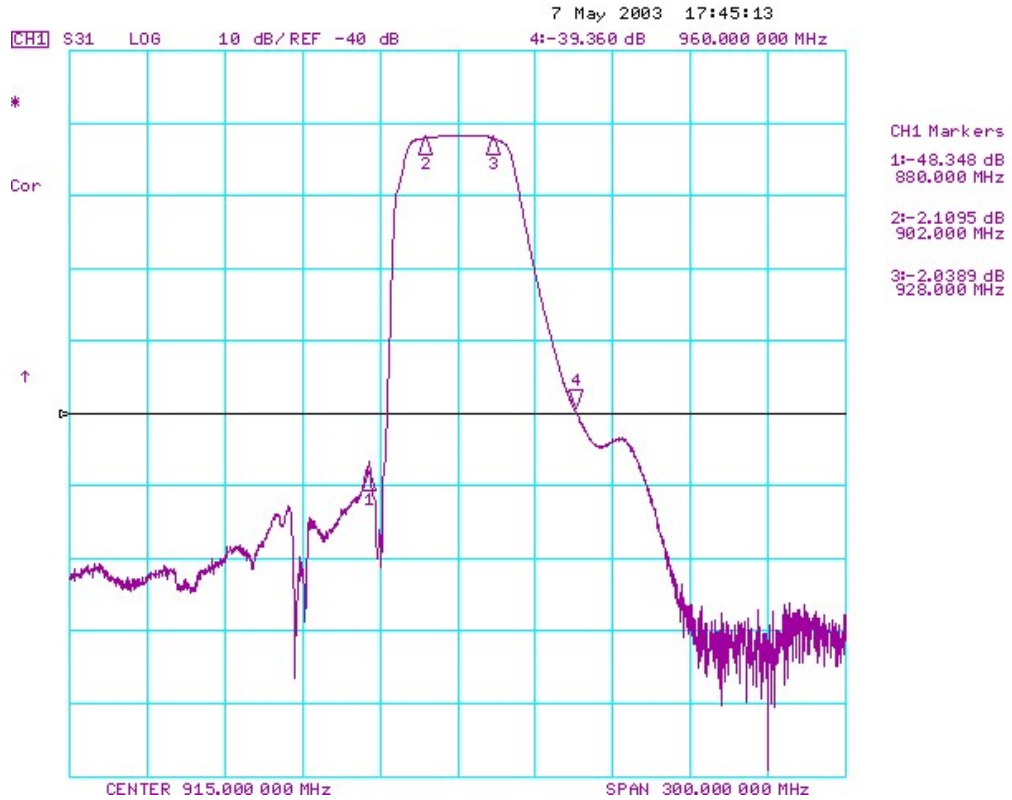
**E. PCB FOOTPRINT:**



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**F. FREQUENCY CHARACTERISTICS:**

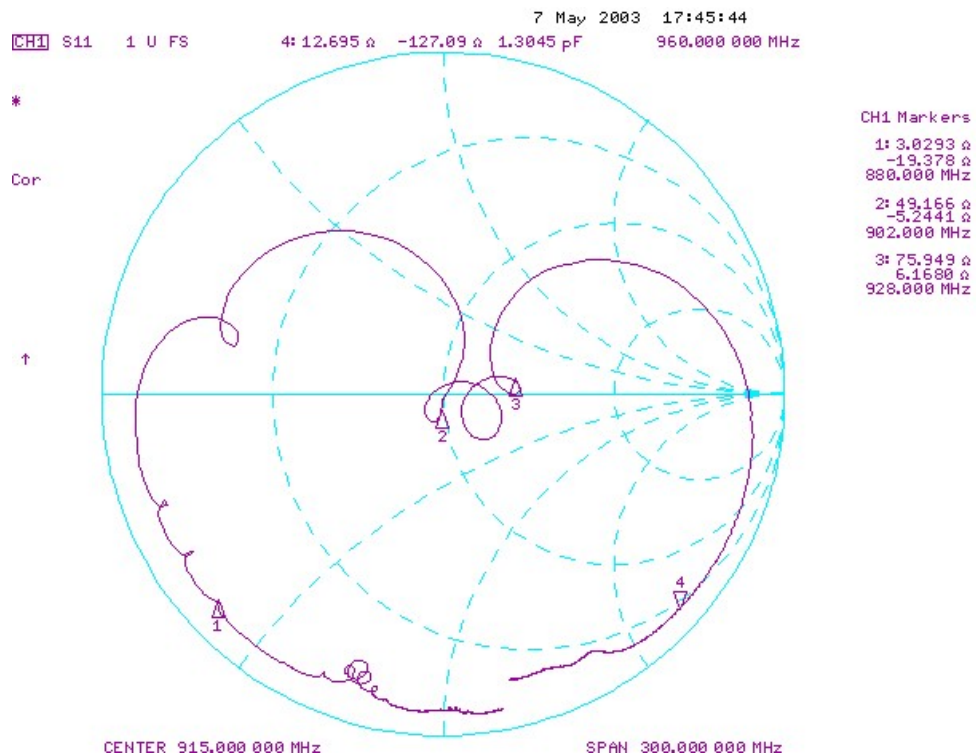


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Reflections Functions:

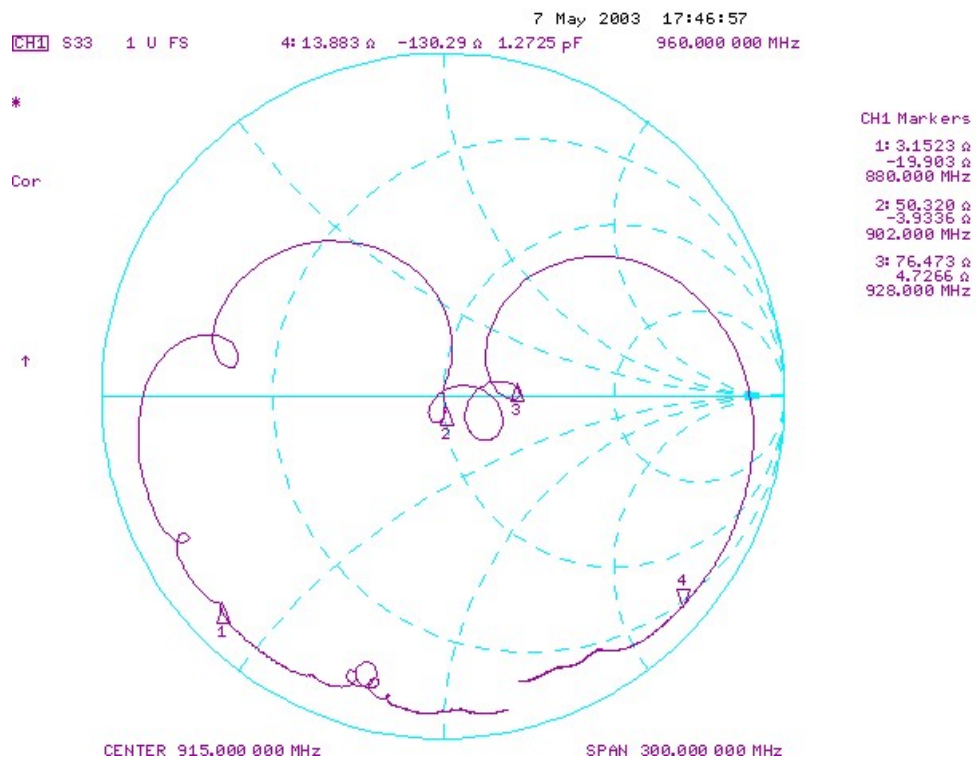
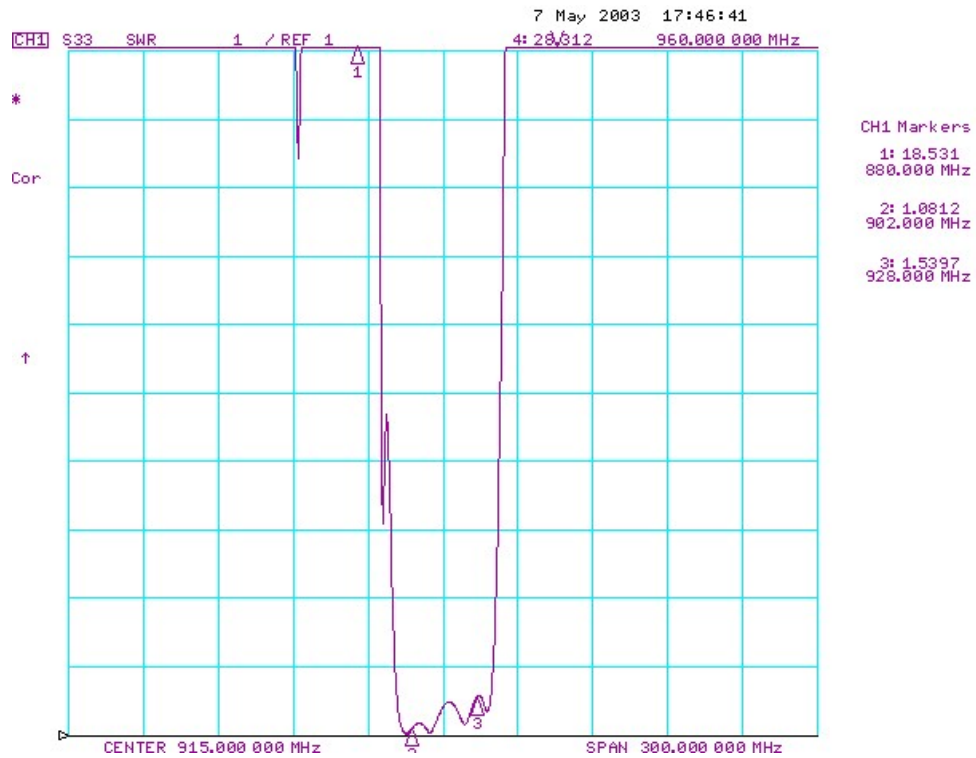
S11



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**H. RECOMMENDED REFLOW PROFILE:**

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 260°C +0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.

