

**SAW Filter 1960.0MHz**

**Model: TA1950D**

**Part No: MP07829**

**Rev No: 1**

**A. MAXIMUM RATING:**

**Electrostatic Sensitive Device (ESD)**

1. Input Power Level: 10 dBm
2. Operating Temperature: -20°C to +85°C
3. Storage Temperature: -40°C to +85°C

**B. ELECTRICAL CHARACTERISTICS (25°C):**

Parameters Description	Unit	Min.	Typ.	Max.
Center Frequency (Fc)	MHz	-	1960	-
Insertion Loss within 1930 ~ 1990MHz	dB	-	2.8	4
1930.6 ~ 1989.4MHz	dB	-	2.8	3.7
Amplitude Ripple within 1930 ~ 1990MHz	dB p-p	-	1.1	2.6
1930.6 ~ 1989.4MHz	dB p-p	-	1.1	2.3
Input VSWR within 1930 ~ 1990MHz	-	-	2	2.2
Output VSWR within 1930 ~ 1990MHz	-	-	2	2.3
Amplitude balance within 1930.0 ~ 1990.0MHz	dB	-1.8	-0.9/+1	+1.8
Phase balance within 1930.0 ~ 1990.0MHz	deg.	-15	-4.6/+8.5	+15
Attenuation:				
10 ~ 1850MHz	dB	40	54	-
824 ~ 849MHz	dB	50	62	-
1850 ~ 1910MHz	dB	35	46	-
2020 ~ 2070MHz	dB	15	22	-
2070 ~ 6000MHz	dB	25	32	-

With matching network.

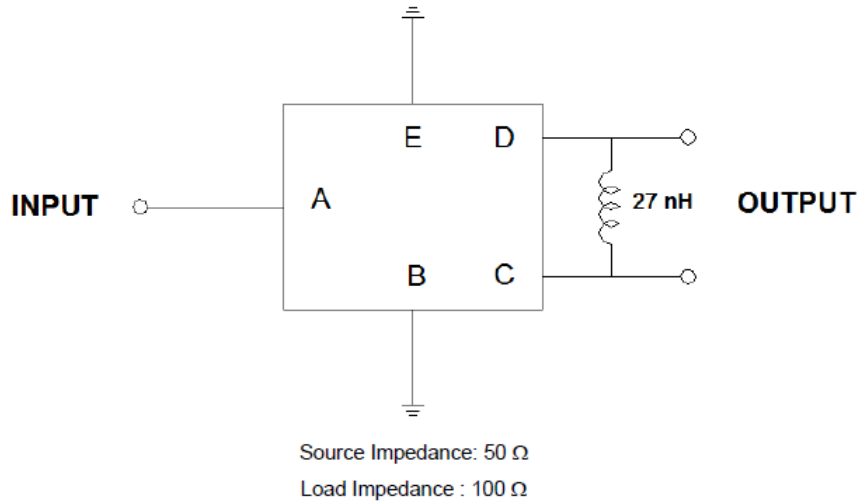
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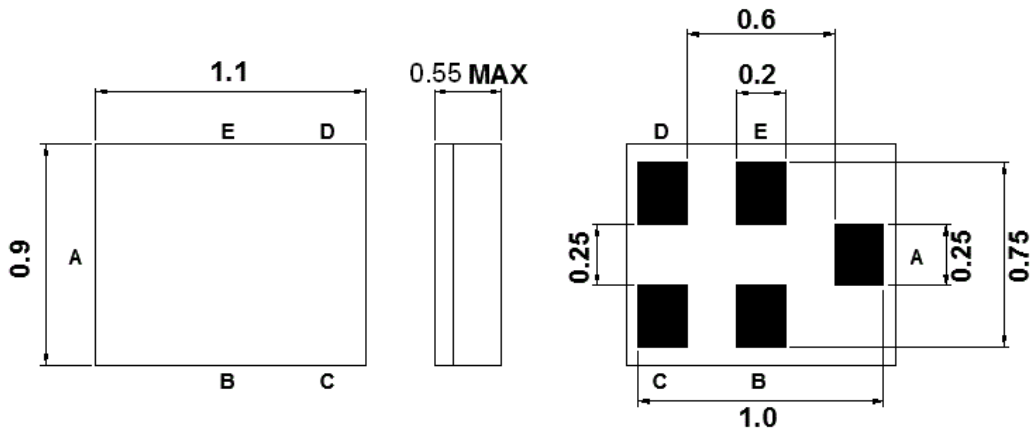
**Rev No: 1**

**C. MEASUREMENT CIRCUIT:**

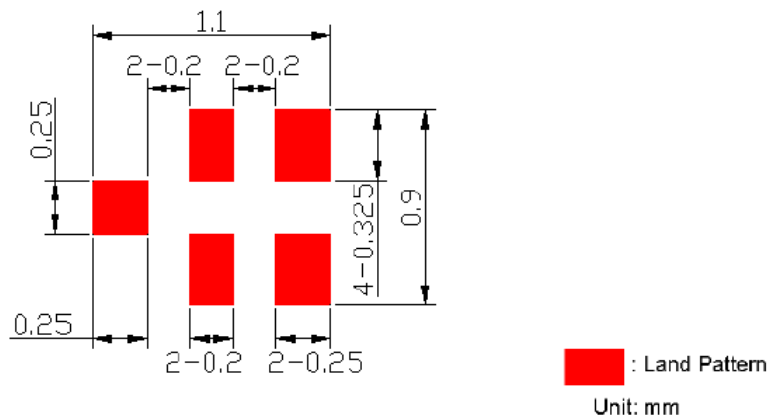


- B, E: Ground
- A: Input
- D, C: Balance output

**D. OUTLINE DRAWING:**



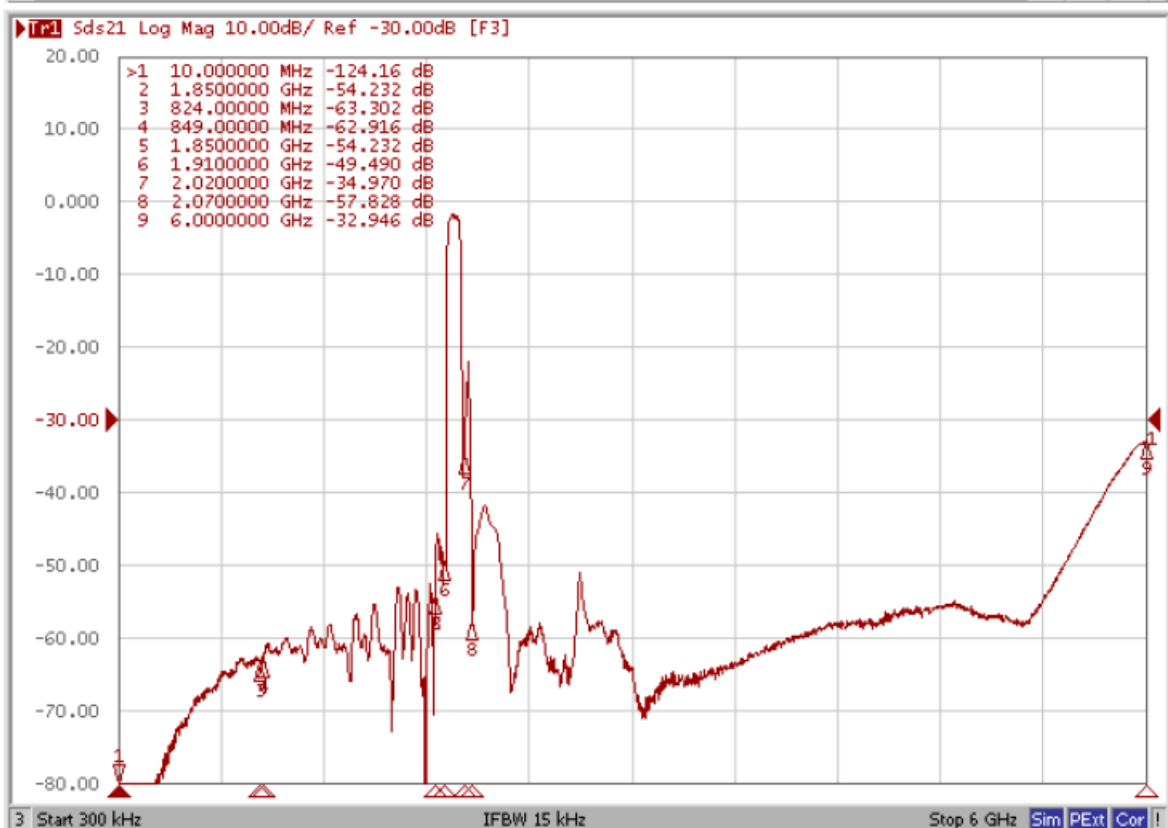
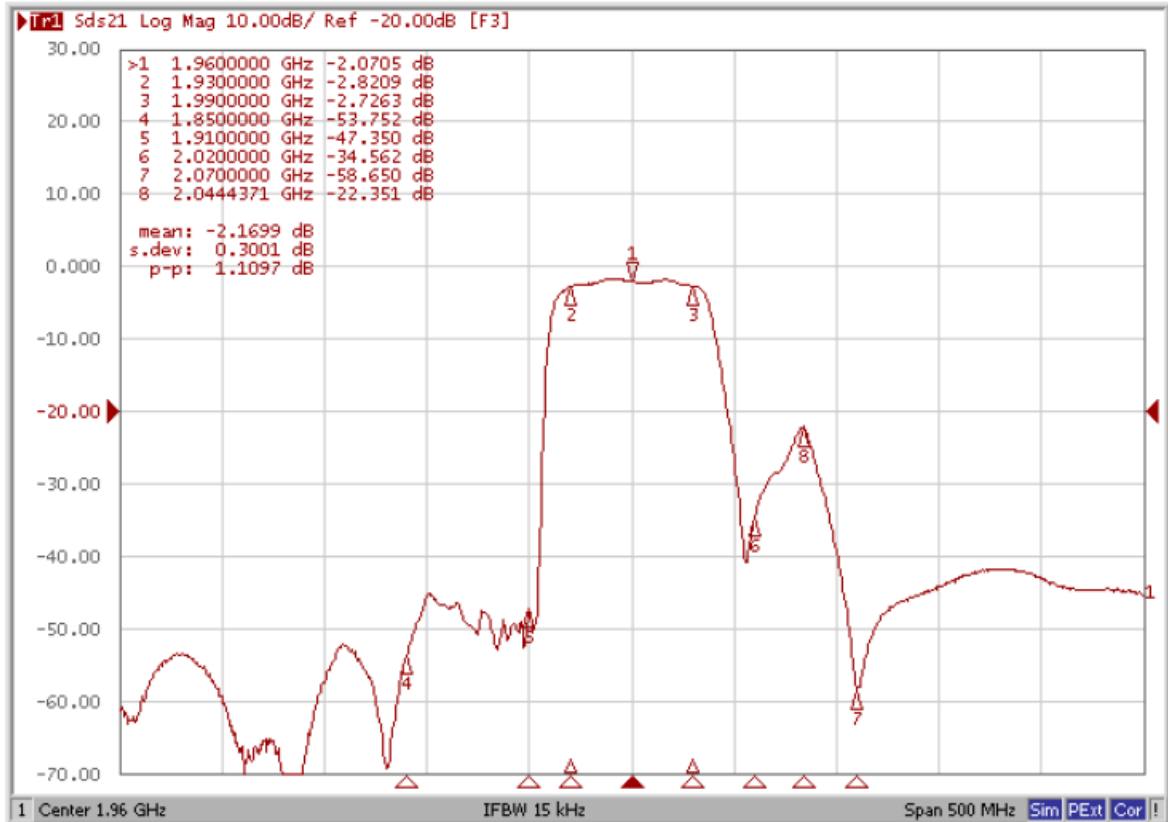
**E. PCB FOOTPRINT:**



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**F. FREQUENCY CHARACTERISTICS:**

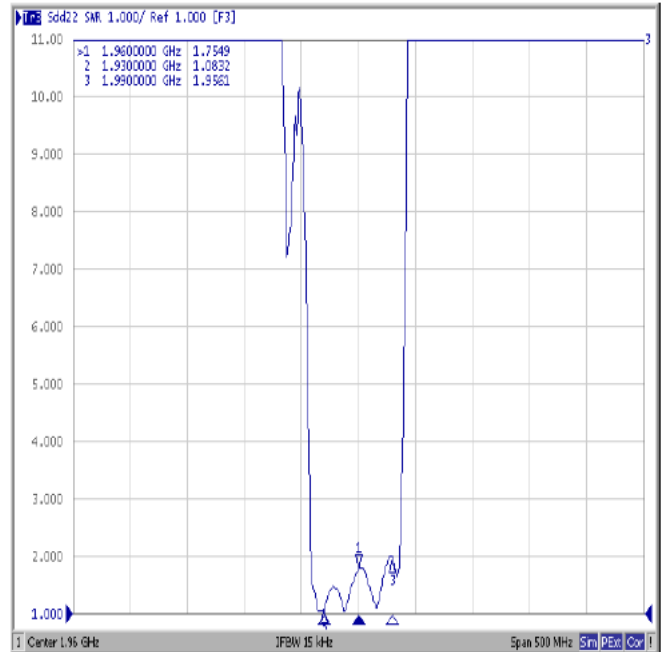
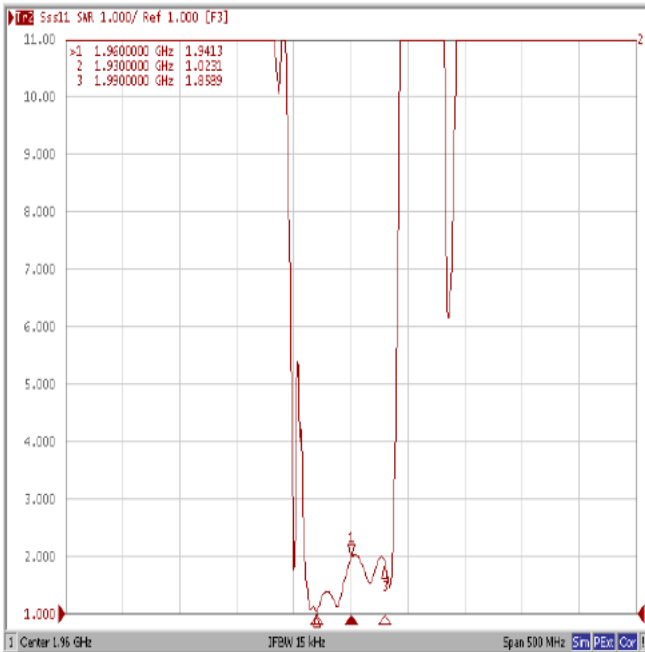


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S11 SWR

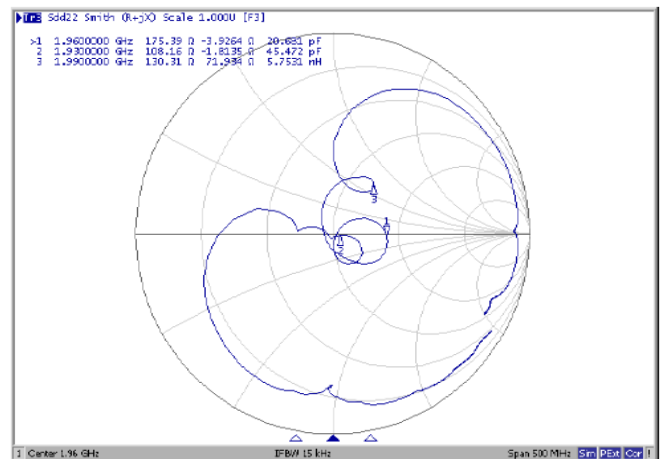
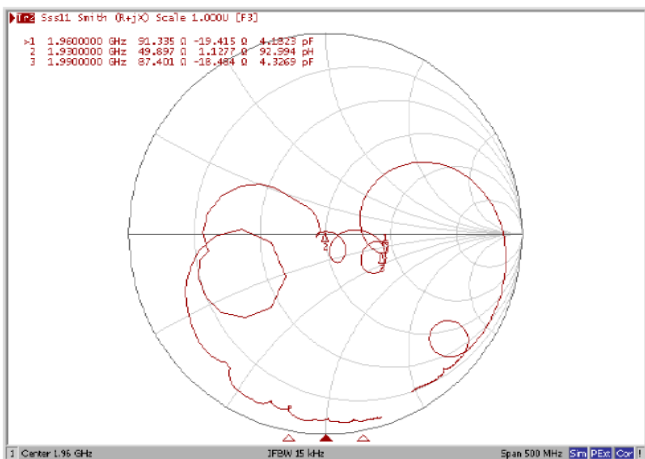
S22 SWR



1. Smith chart

S11

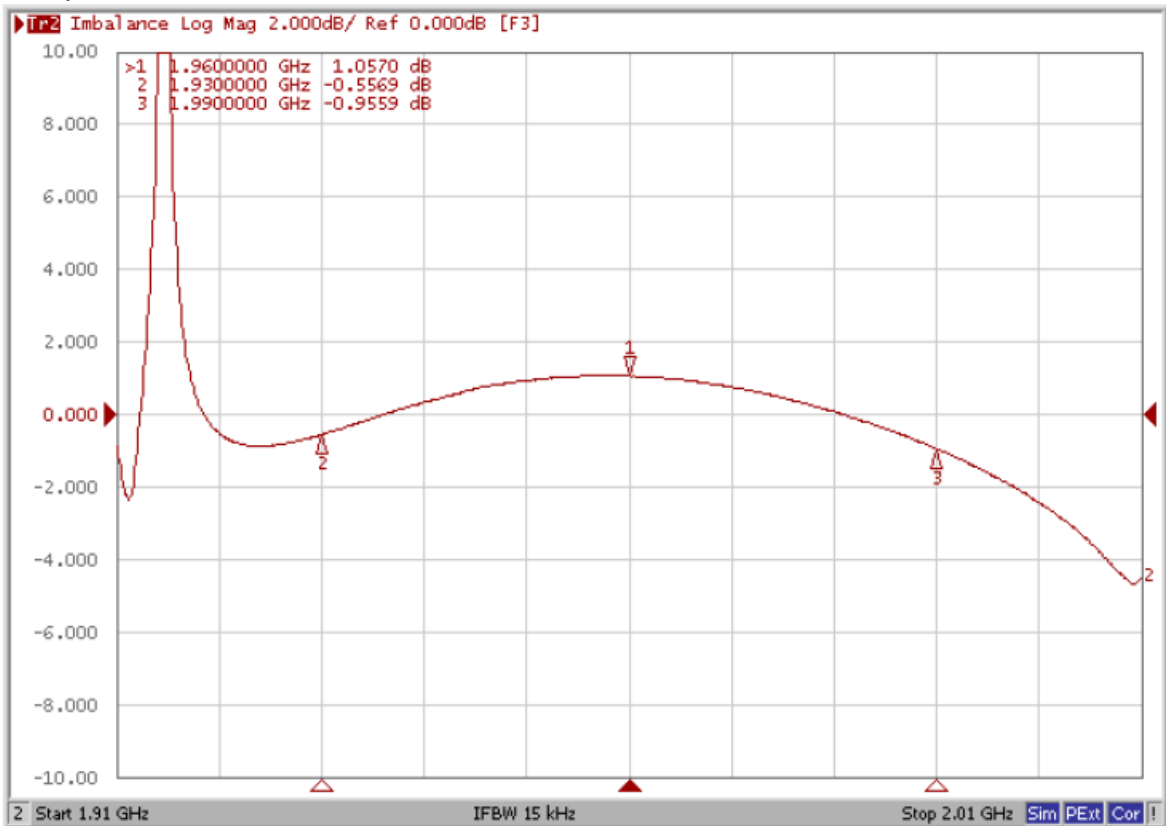
S22



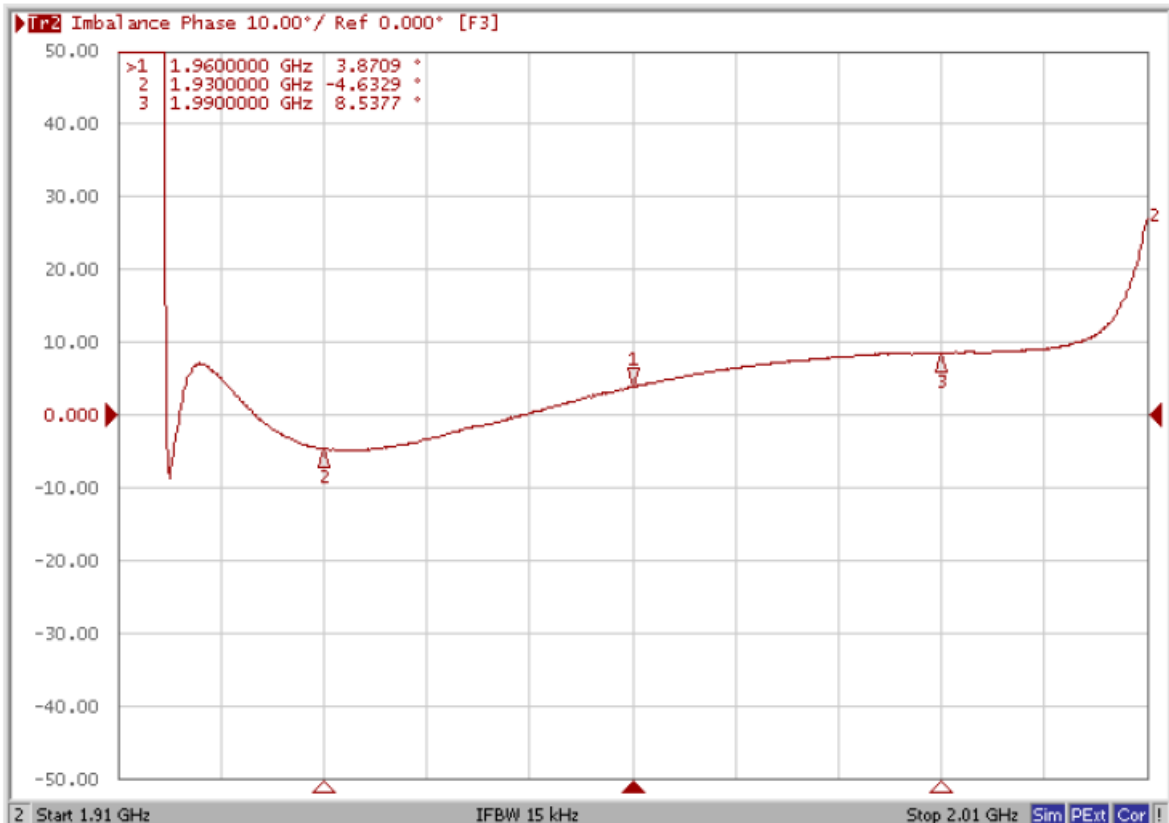
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### 2. Amplitude balance



### 3. Phase balance





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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.

