

SAW Filter: 1645.0MHz

Model: TA0789B

Part No: MP10485

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

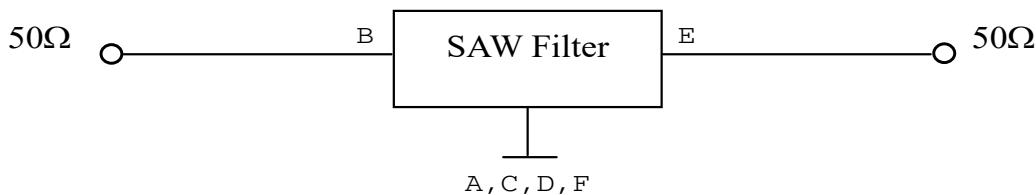
1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1
6. ESD 50V (MM) 100V (HBM)

B. ELECTRICAL CHARACTERISTICS: (Ambient temperature: 25°C)

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1645	-	-
Min. Insertion Loss IL	dB	-	4	5.8	-
Amplitude Ripple (1635.5 ~ 1654.5MHz)	dB	-	1	2.4	-
VSWR (1635.5 ~ 1654.5MHz)		-	2	2.5	-
Group Delay Variation (1635.5 ~ 1654.5MHz)	ns	-	5	15	
Attenuation (Reference level from 0dB)					
10 ~ 1580MHz	dB	35	52	-	-
1700 ~ 3000MHz	dB	35	46	-	-
Temperature Coefficient of Frequency	-36ppm/°C				

C. MEASUREMENT CIRCUIT:

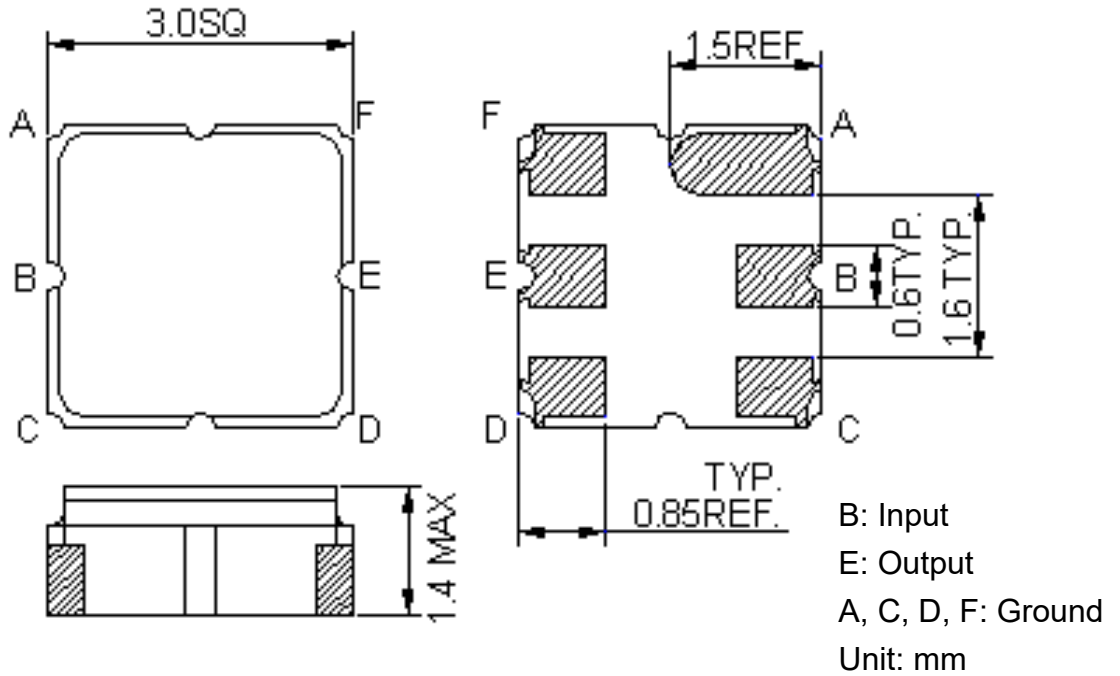
HP Network analyzer



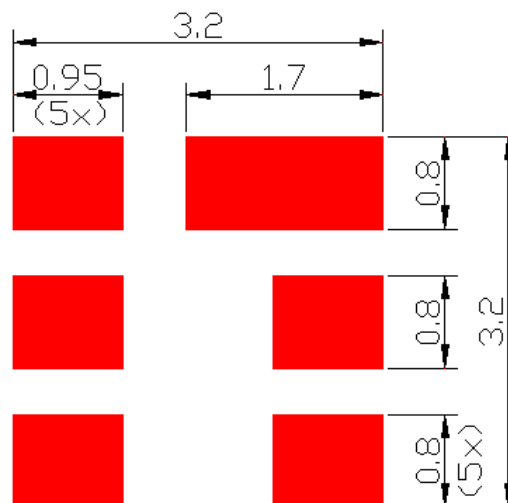
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D. OUTLINE DRAWING:



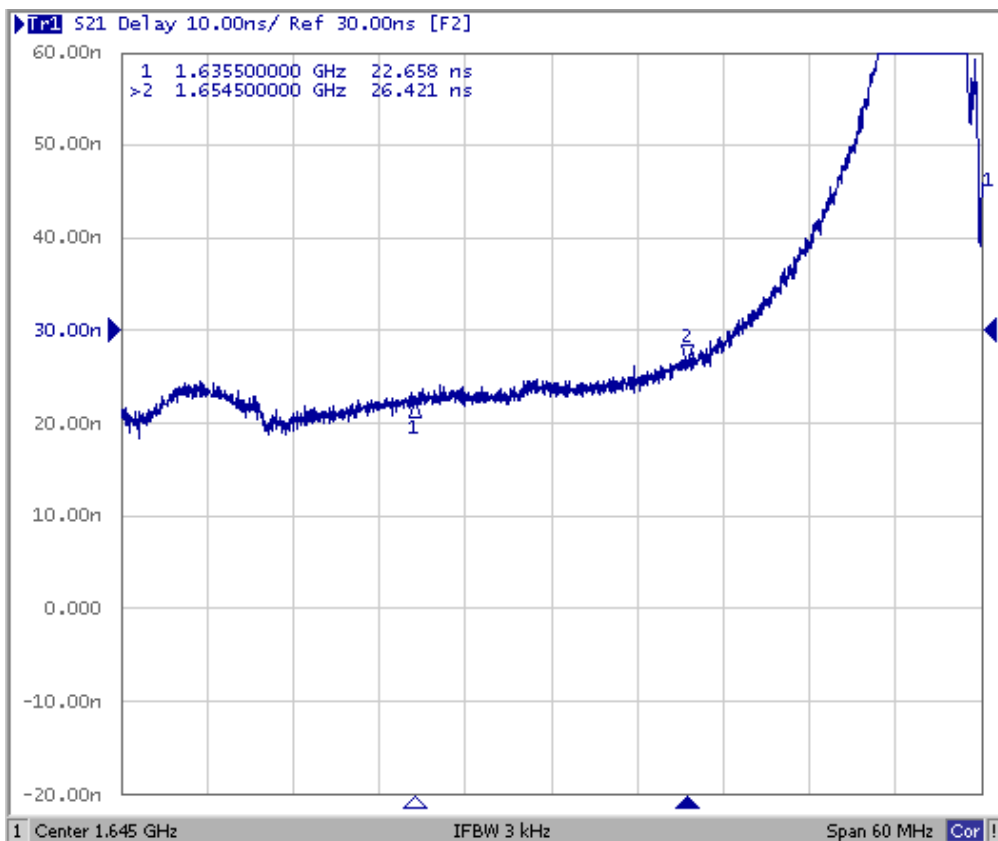
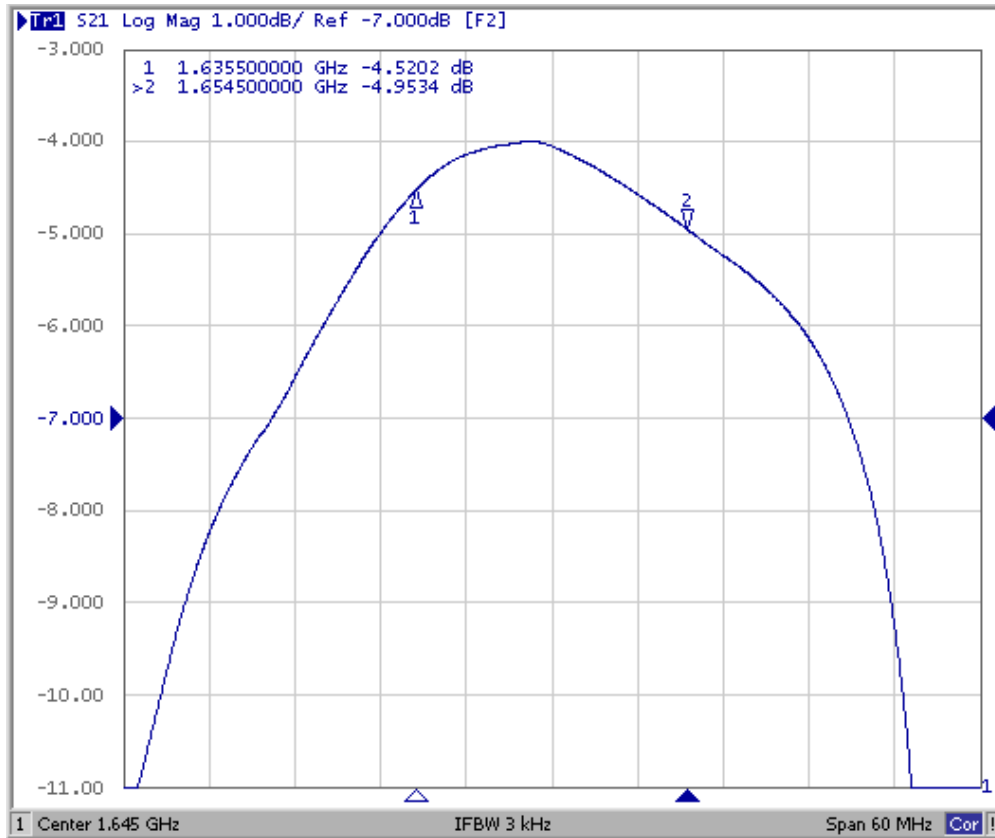
E. PCB FOOTPRINT:



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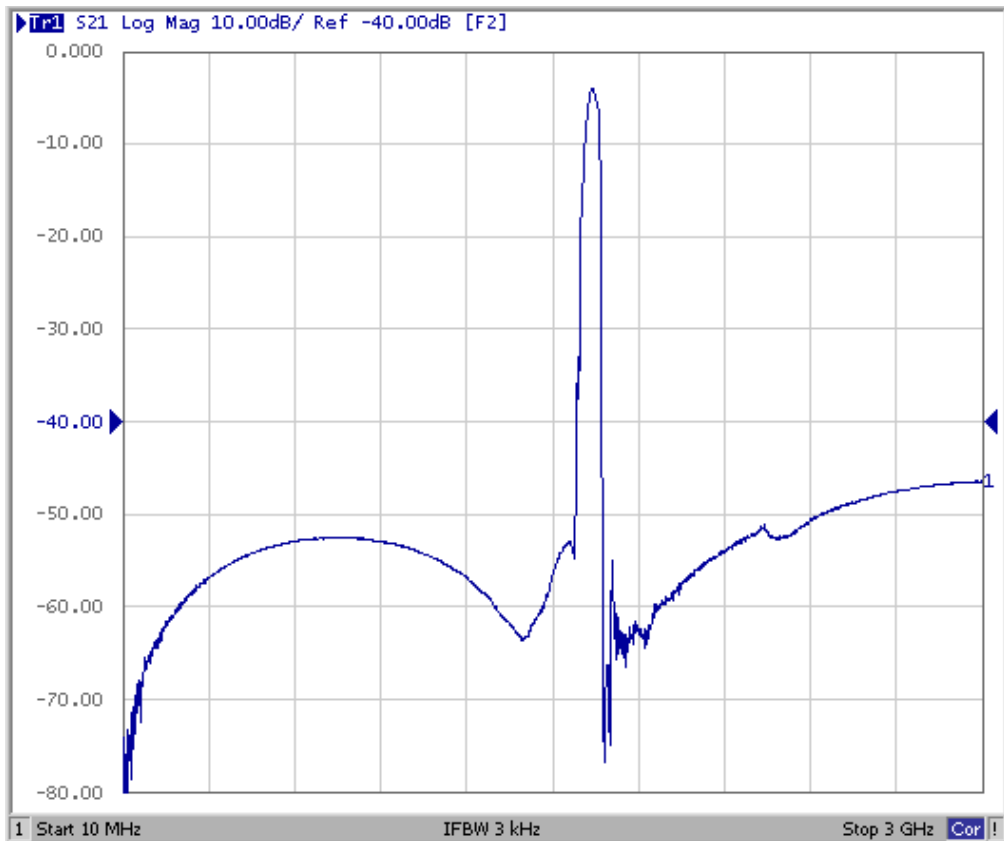
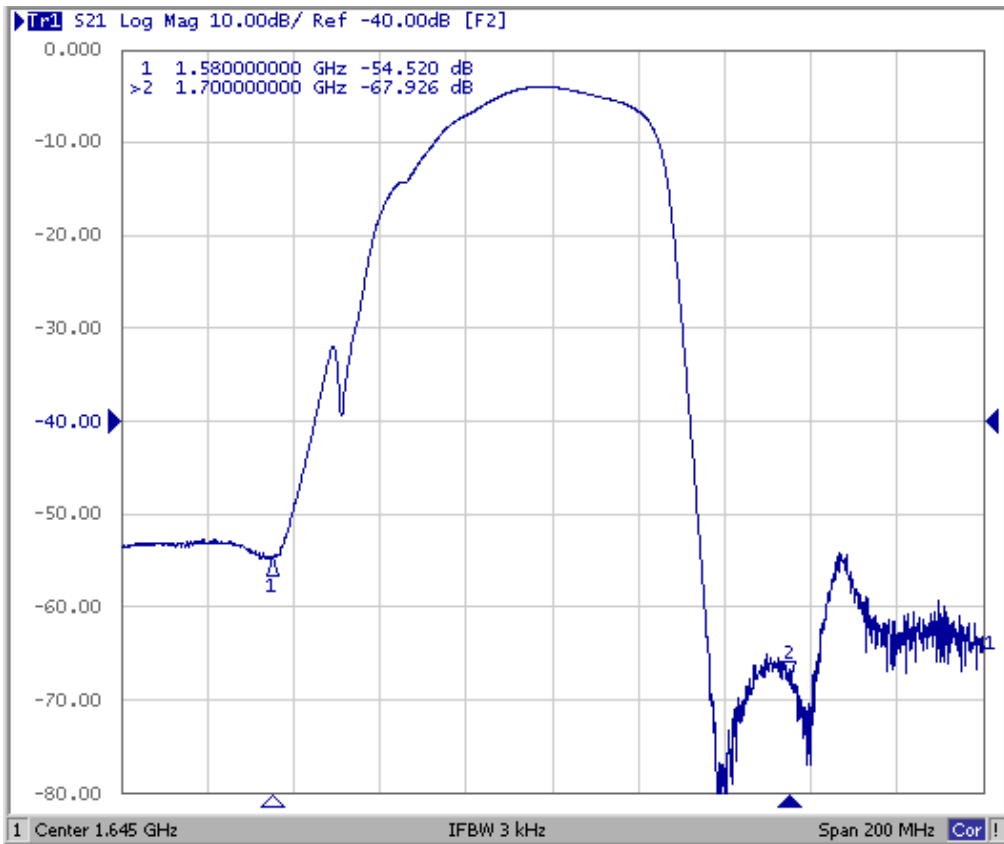
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F. FREQUENCY CHARACTERISTICS:



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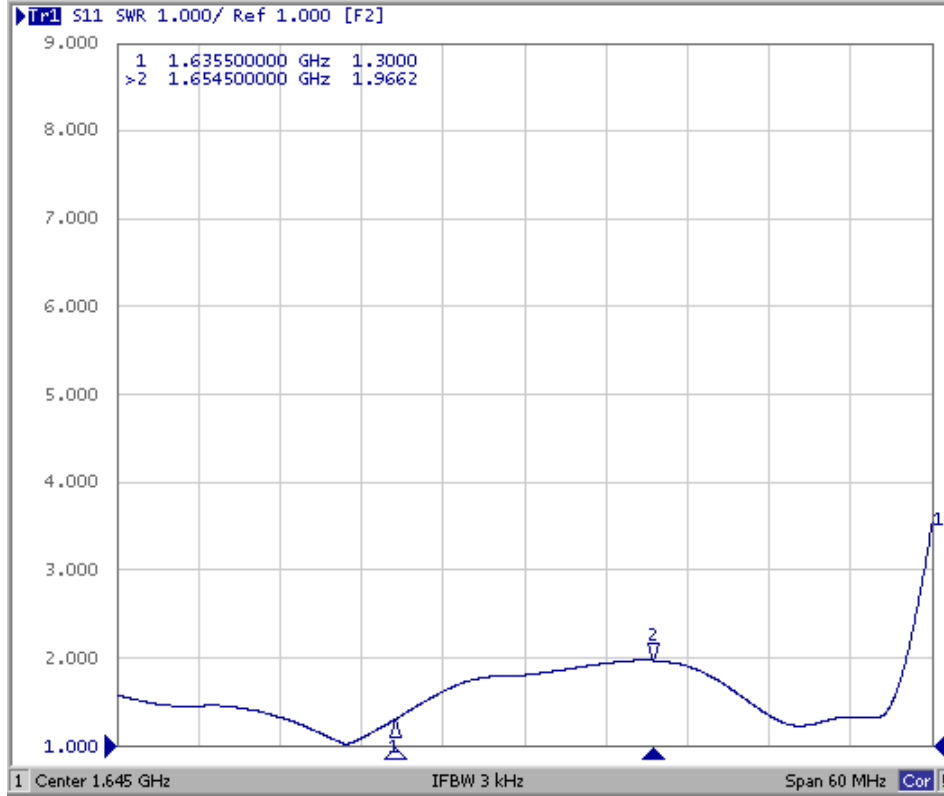


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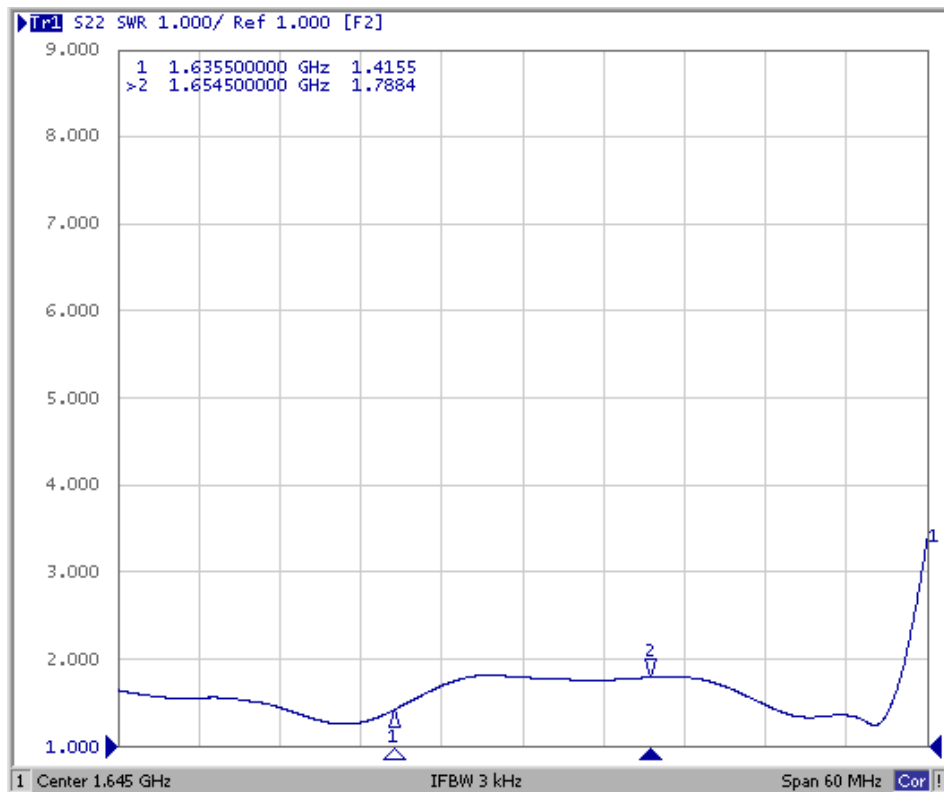
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Reflection Functions

S11



S22



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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.

