

SAW Filter 1582.40MHz

Model: TA1658D

Part No: MP10158 (AEC-Q200 compliant)

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 15dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +105°C
4. Storage Temperature: -40°C to +105°C
5. Moisture Sensitivity Level: Level 1 (MSL1)

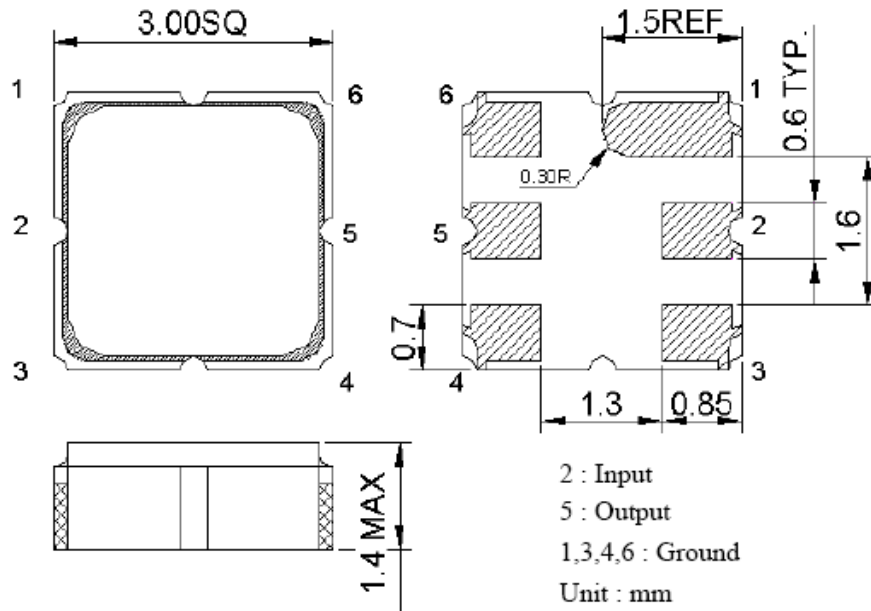
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	-40°C to +105°C
Center Frequency Fc	MHz	-	1582.4	-
Insertion Loss IL				
1574.42 ~ 1576.42MHz			1.2	2.0
1559.05 ~ 1563.15MHz	dB		1.7	2.2
1573.37 ~ 1577.47MHz			1.3	2.0
1597.78 ~ 1605.66MHz			1.5	4.0
GD Ripple (1597.55 ~ 1605.89MHz)	dB	-	12	25
VSWR		-	-	-
1574.42 ~ 1576.42MHz		-	1.6	2.0
1559.05 ~ 1563.15MHz	-		1.3	2.0
1573.37 ~ 1577.47MHz			1.7	2.0
1597.78 ~ 1605.66MHz			1.4	2.0
Attenuation				
10 ~ 824MHz	dB	30	38	-
824 ~ 925MHz	dB	30	37	-
1427 ~ 1453MHz	dB	40	47	-
1625MHz	dB	25	42	-
1710 ~ 1785MHz	dB	37	45	-
1850 ~ 1910MHz	dB	38	47	-
1920 ~ 1980MHz	dB	39	49	-
2400 ~ 2500MHz	dB	35	45	-
2500 ~ 2570MHz	dB	37	45	-
2600 ~ 3000MHz	dB	20	41	-

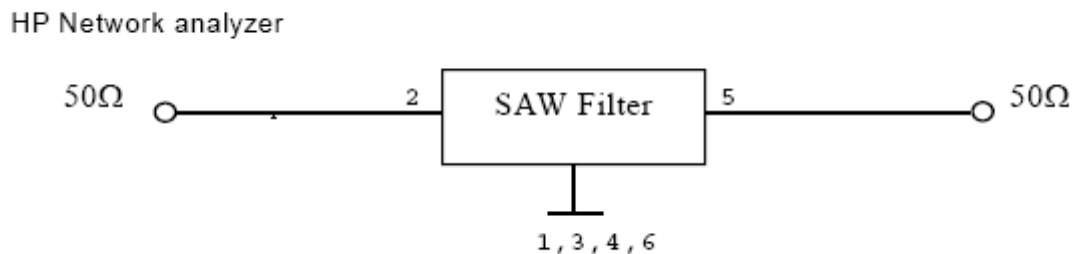
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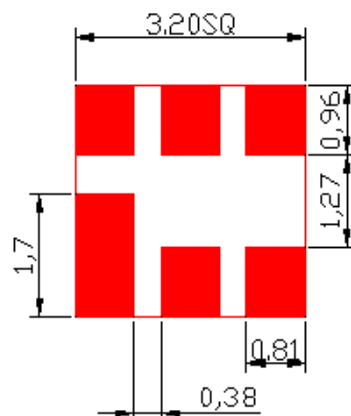
C. OUTLINE DRAWING:



D. MEASUREMENT CIRCUIT:



E. PCB FOOTPRINT:

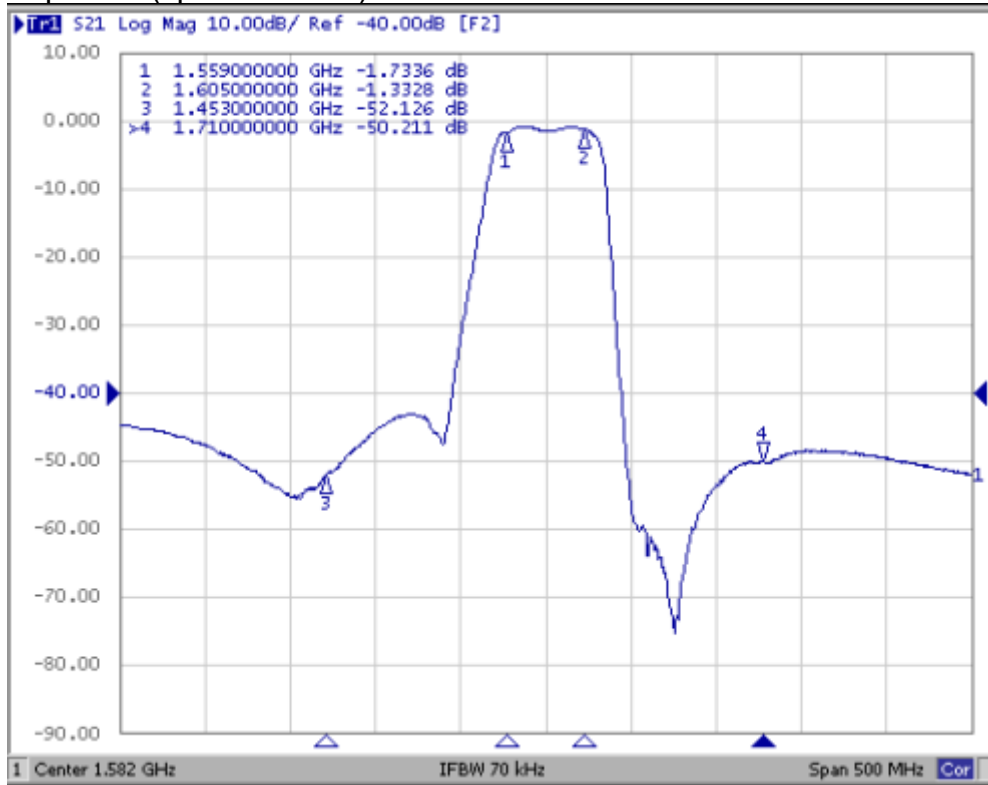


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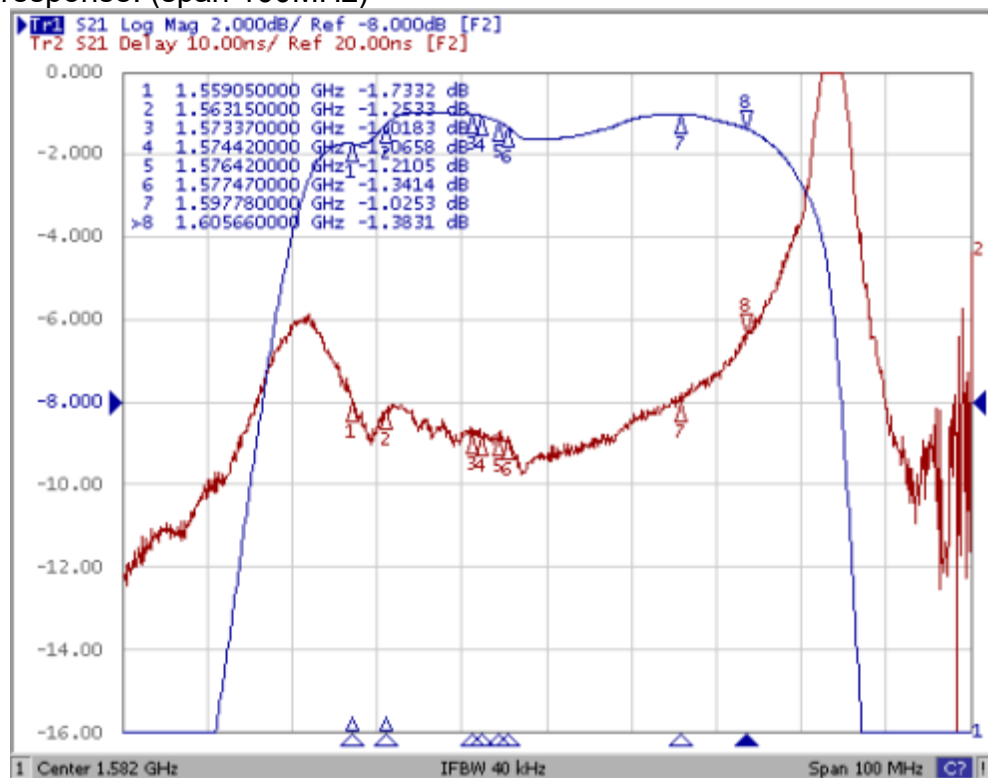
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F. FREQUENCY CHARACTERISTICS:

1. S21 response: (span 500MHz)



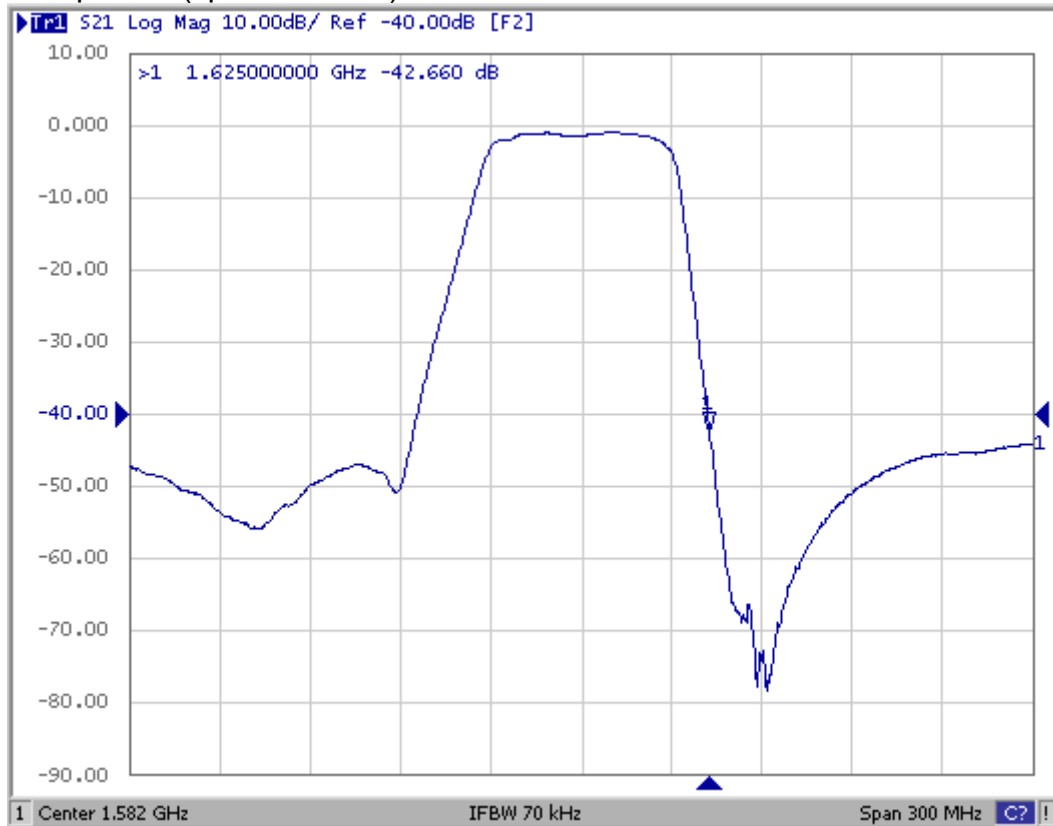
2. S21 response: (span 100MHz)



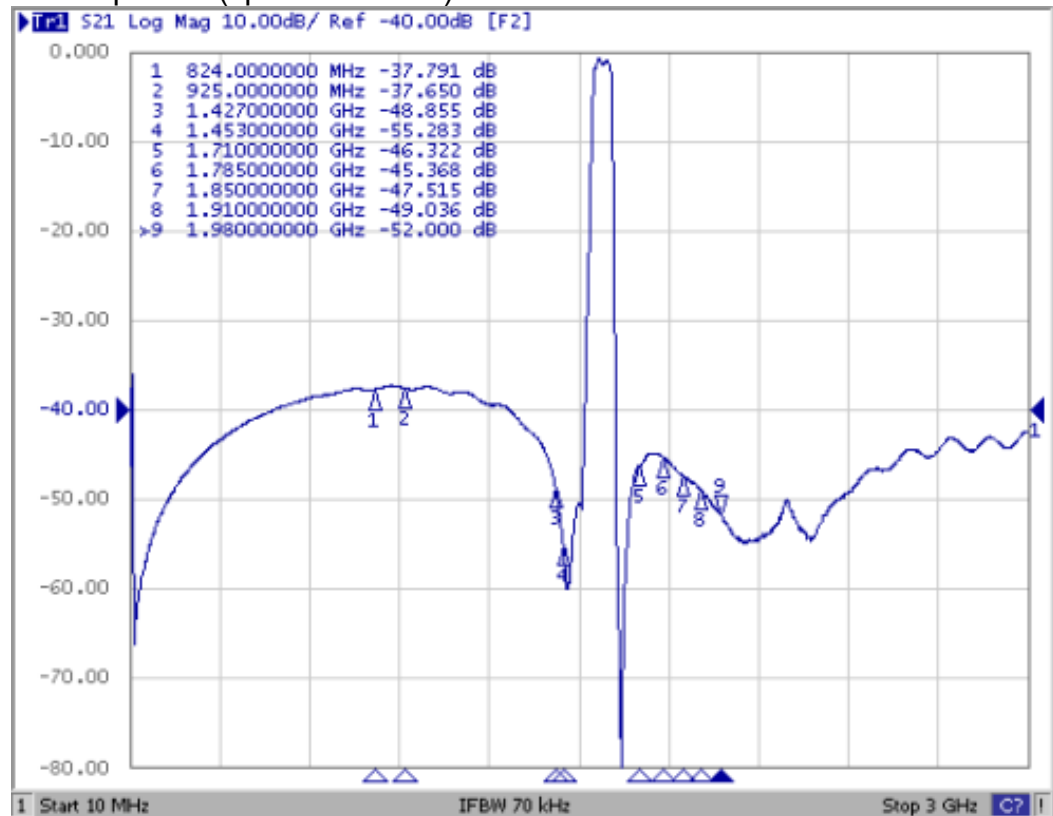
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3. S21 response: (span 300MHz)



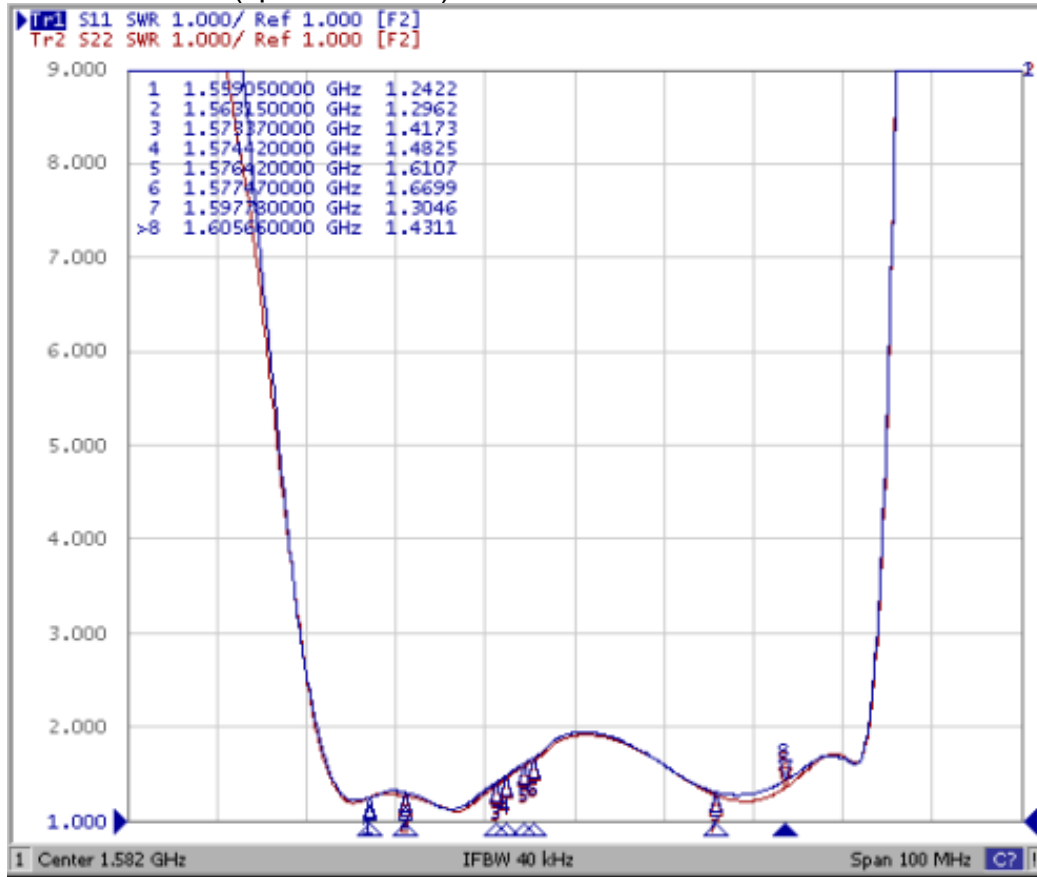
4. Sd21 response: (span 3000MHz)



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5. S11&S22 VSWR: (span 100MHz)

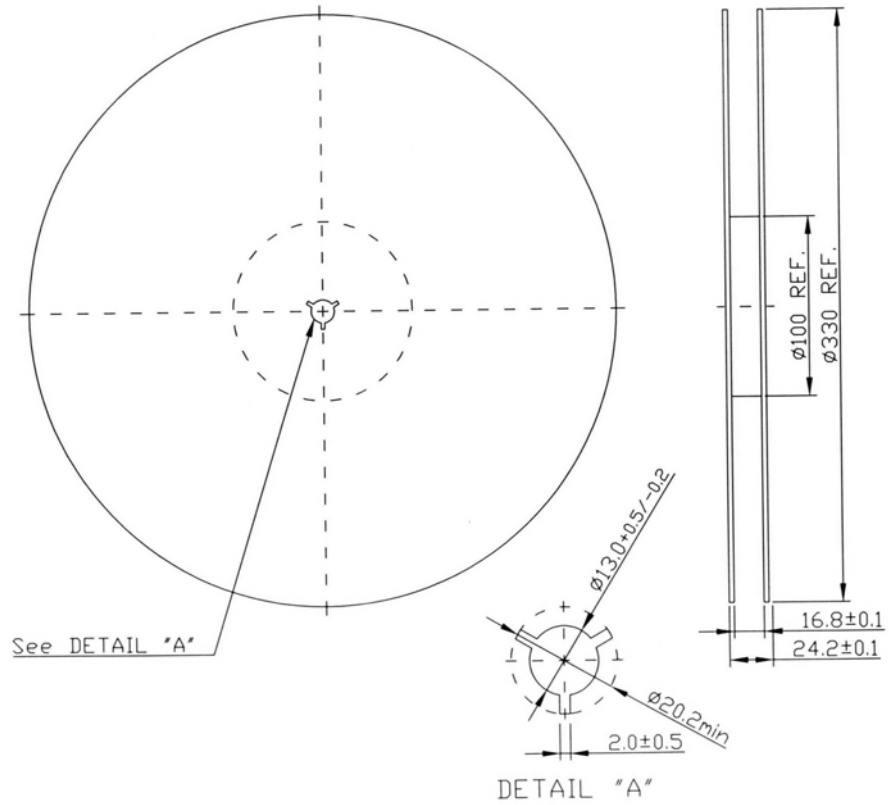


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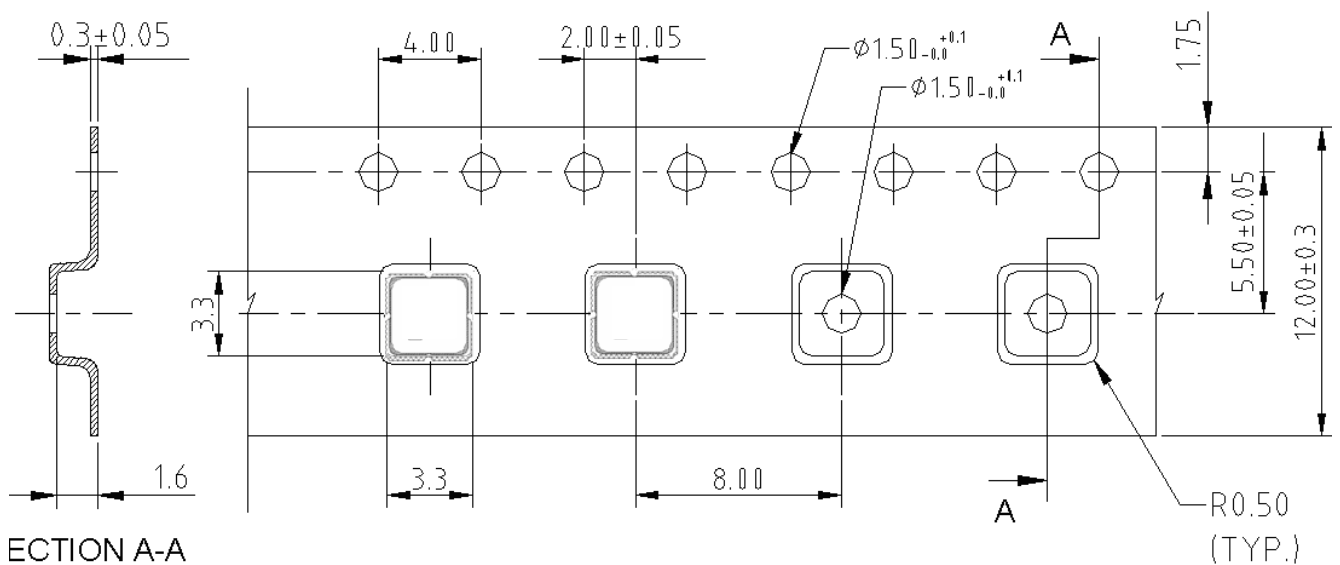
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G. PACKING:

1. Reel Dimensions



2. Tape Dimensions



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H. RECOMMENDED REFLOW PROFILE:

