

SAW Filter 1790.480MHz

Model: TA0728C

Part No: MP07989 (AEC-Q200 compliant)

Rev No: 2

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 +125°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (differential): $Z_S = 150\Omega // 22nH$
2. Terminating load impedance (differential): $Z_L = 150\Omega // 22nH$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1790.48	-	-
Bandwidth at -2dB	MHz	40	60	-	-
Insertion Loss in 1770.48 ~ 1810.48MHz	dB	-	2.8	5	-
Amplitude ripple (1770.48MHz ~ 1810.48MHz)	dB	-	0.8	2	-
Phase error (1770.48MHz ~ 1810.48MHz) (3)	deg	-	1.2	5	-
Group Delay ripple (1770.48MHz ~ 1810.48MHz)	ns	-	8	25	-
I/O VSWR (1770.48MHz ~ 1810.48MHz)	-	-	1.8	2.5	-
Attenuation (1)					
50 ~ 1708.42MHz	dB	44	49	-	-
1872.54 ~ 1912.5MHz	dB	44	56	-	-
1912.5 ~ 4250MHz	dB	38	41	-	-
4250 ~ 6000MHz	dB	30	38	-	-

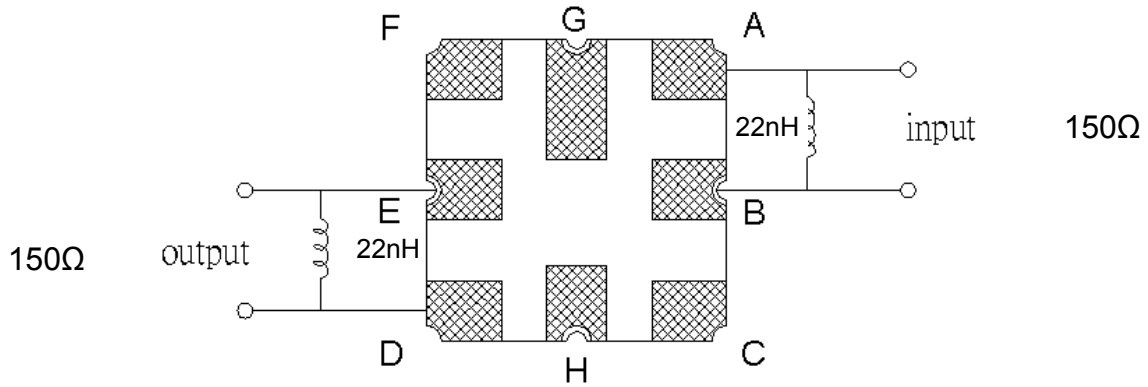
Notes:

1. The amplitude reference is insertion loss at Fc.
2. The amplitude ripple is defined as the max. level - min. level over any 30MHz block of the given bandwidth.
3. The phase error is measured over any 30MHz block of the given bandwidth.

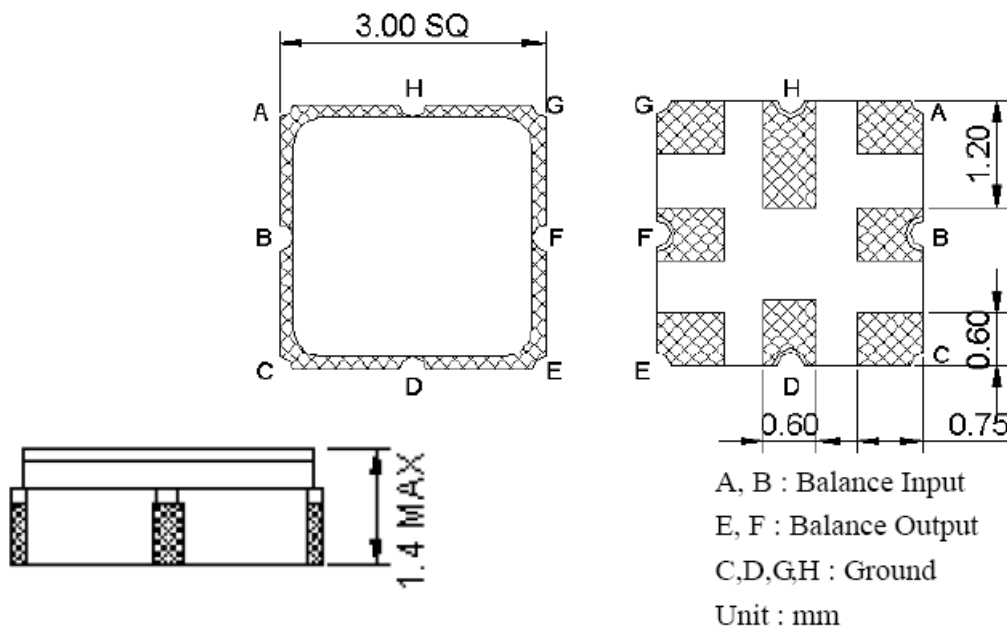
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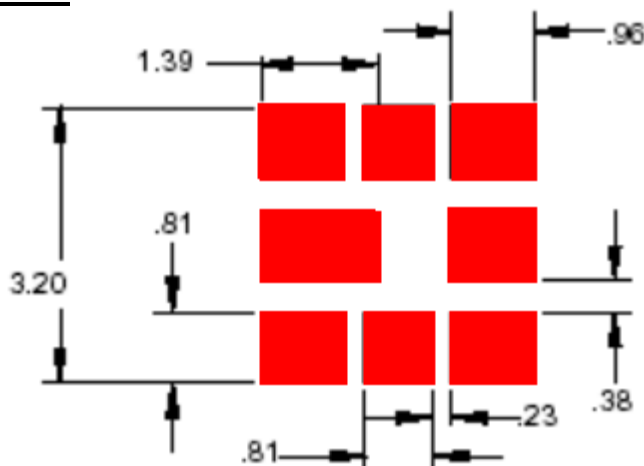
C. MEASUREMENT CIRCUIT:



D. OUTLINE DRAWING:



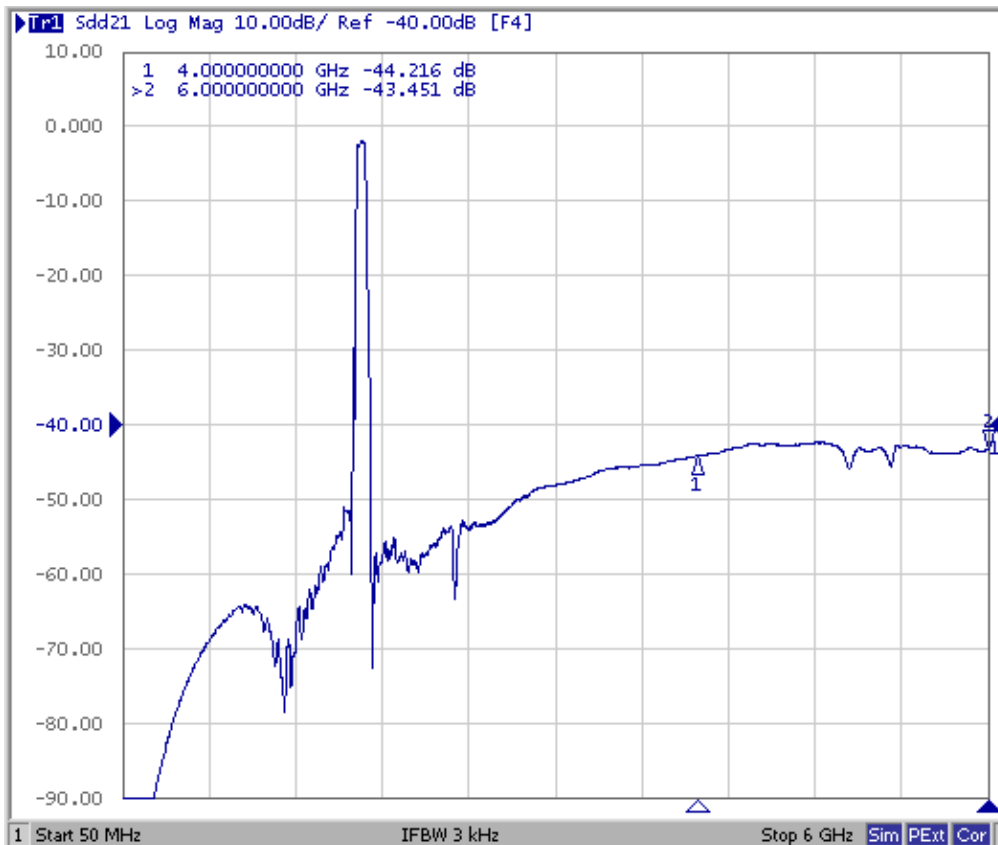
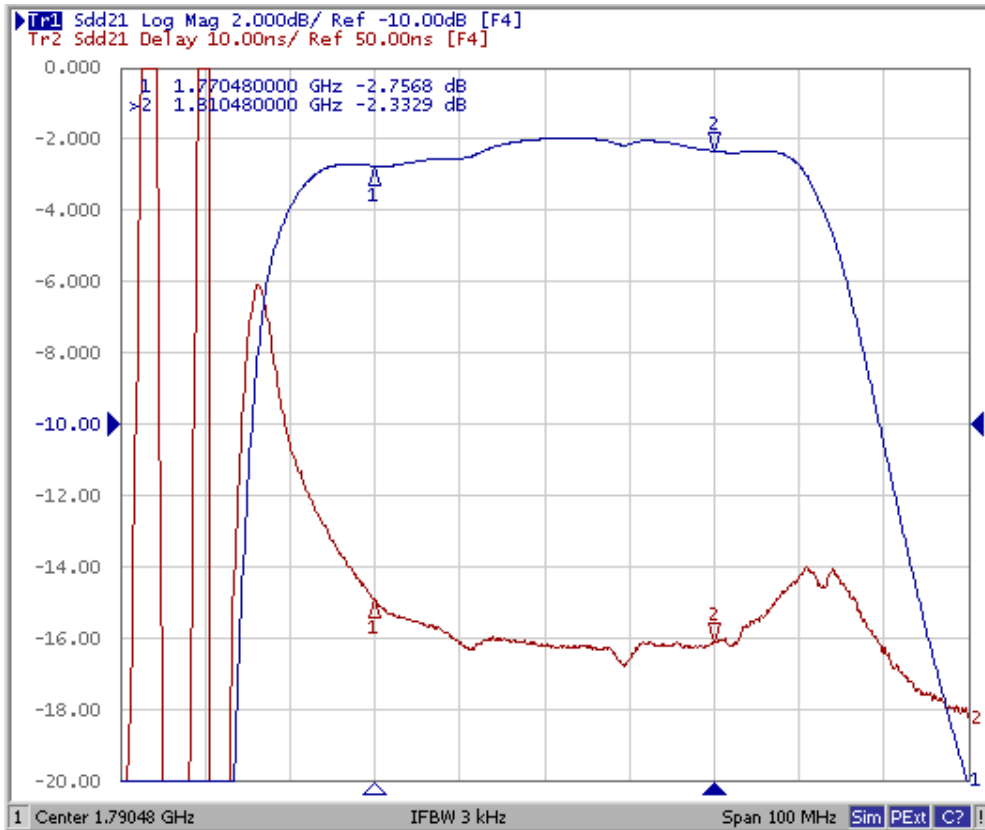
E. PCB FOOTPRINT:



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F. FREQUENCY CHARACTERISTICS:

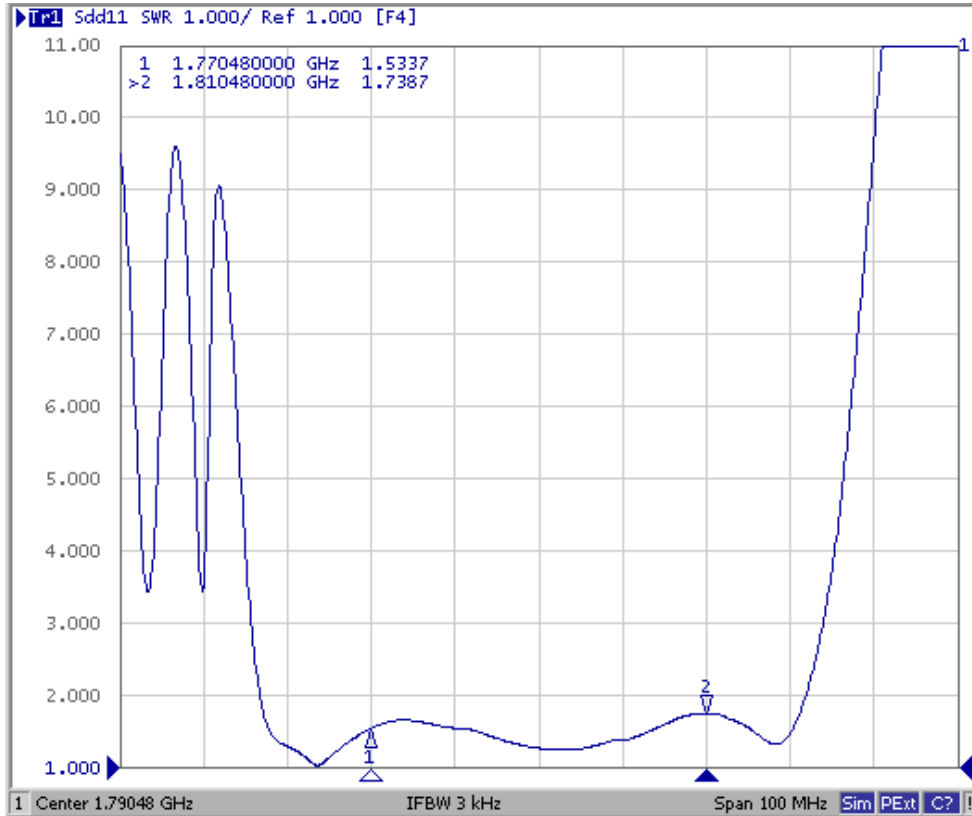


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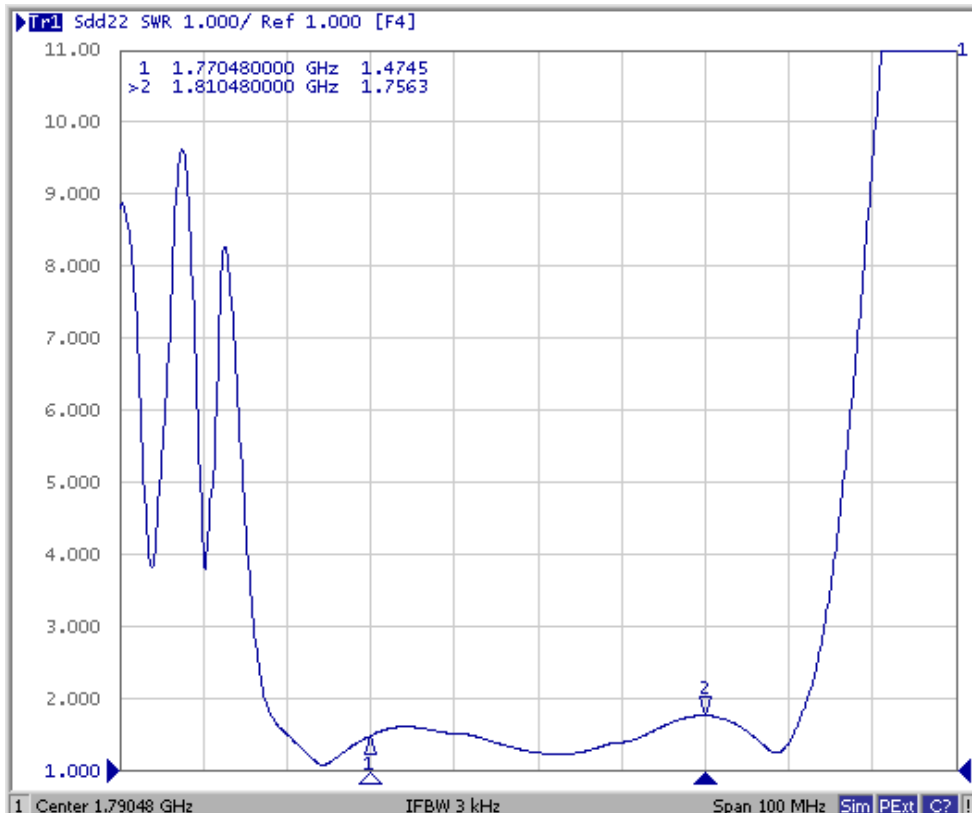
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Reflection Functions

S11



S22

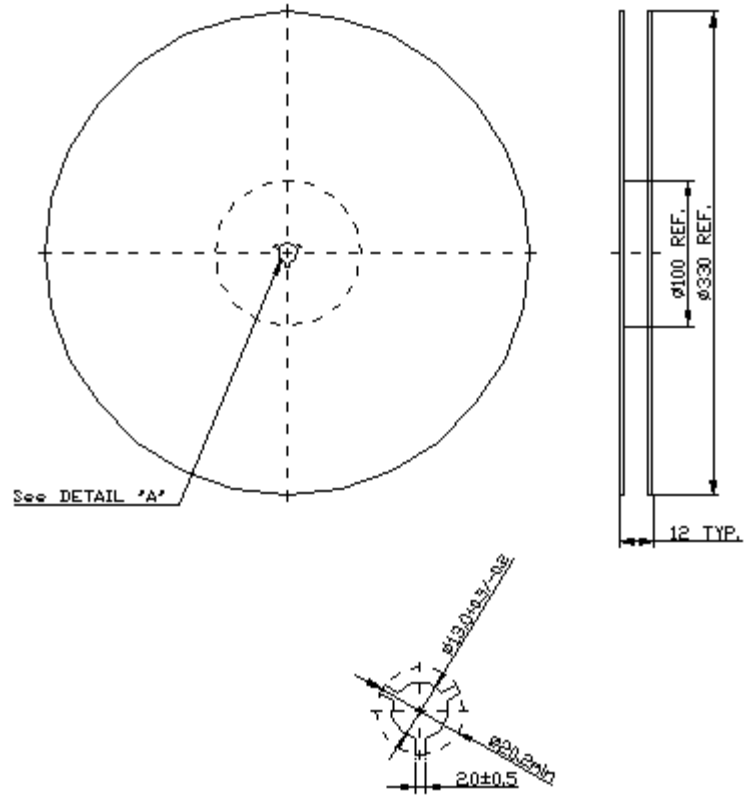


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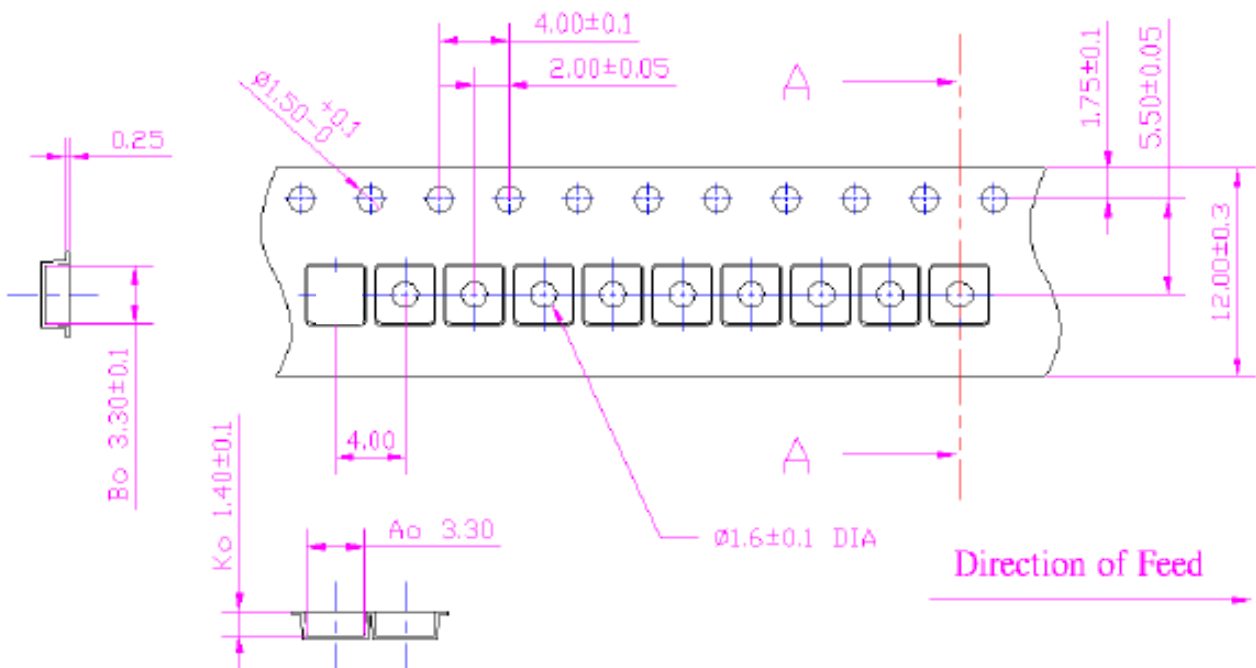
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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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.

