

SAW Filter 48MHz
Part No: MP03314

Model: TB0412A
Rev No: 1

A. MAXIMUM RATING:

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

B. CHARACTERISTICS:

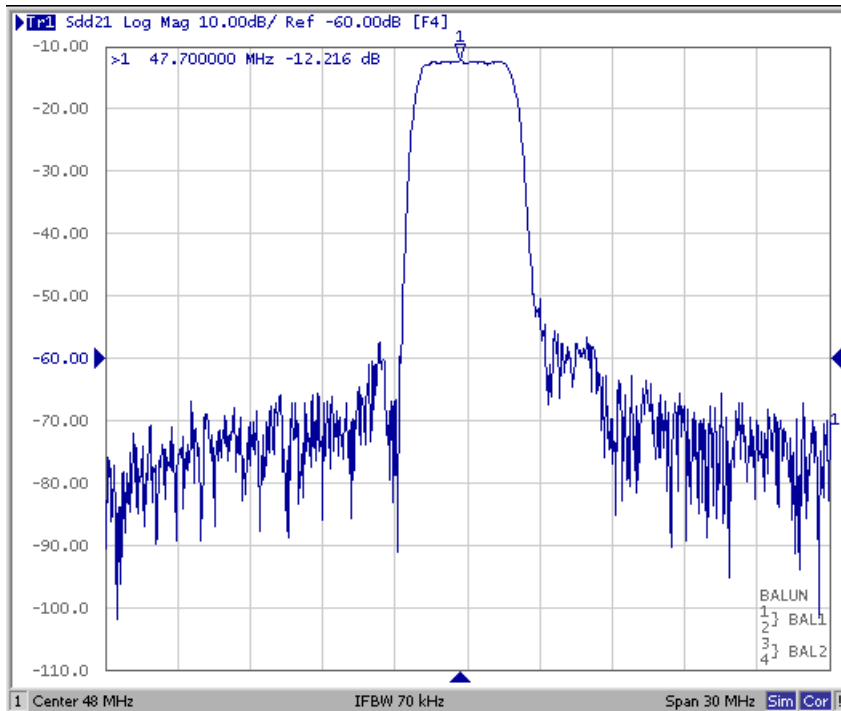
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	48	-
Insertion Loss IL	dB	-	12.5	16
1dB Bandwidth	MHz	3.125	3.40	-
3dB Bandwidth	MHz	3.5	3.90	-
Pass band Ripple Fc ± 1.5MHz	dB	-	0.6	1.0
Group delay Variation Fc ± 1.56MHz		-	135	220
Stopband Rejection				
Fc ± 1.54MHz	dBc	-	2.6	-
Fc ± 2.72MHz	dBc	30	35	-
Fc ± 3.50MHz	dBc	40	45	-
Fc ± 5.0MHz	dBc	45	47	-

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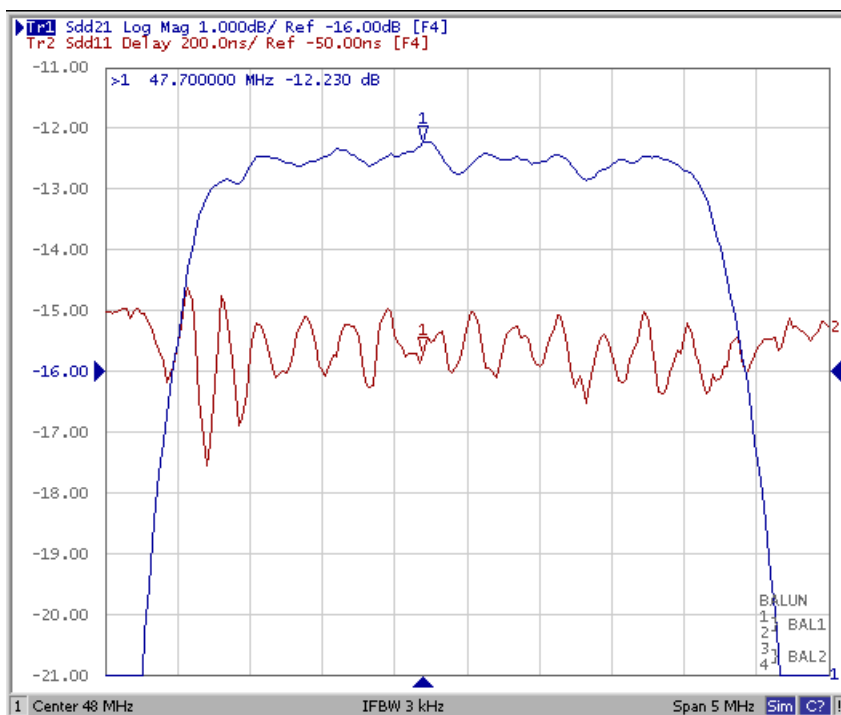
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C. FREQUENCY CHARACTERISTICS:

1. Frequency Response



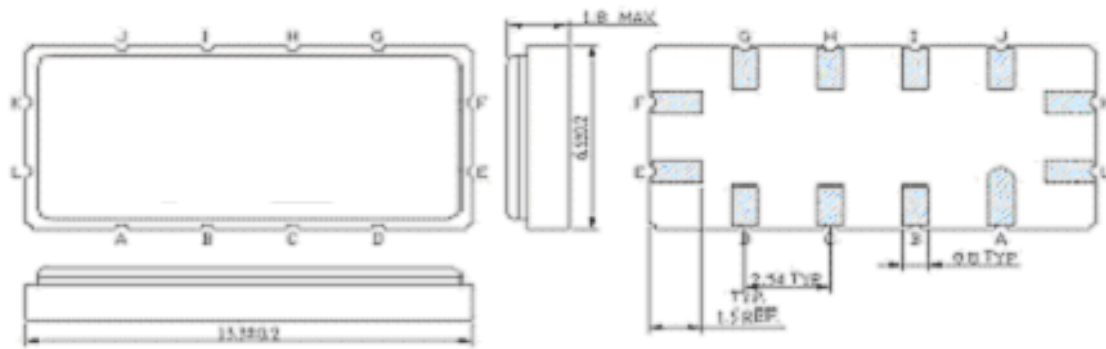
2. Passband response and Group Delay Variation



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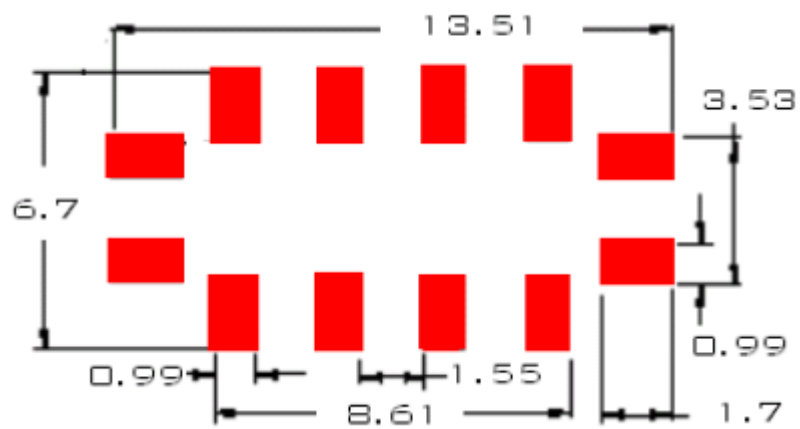
D. OUTLINE DRAWING:



Unit: mm

K = L: RF input
 E = F: RF output
 Unit: mm

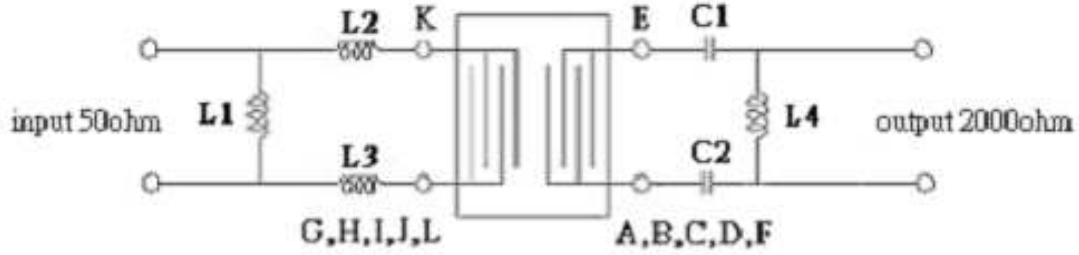
E. PCB FOOTPRINT:



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F. MATCHING CIRCUIT:



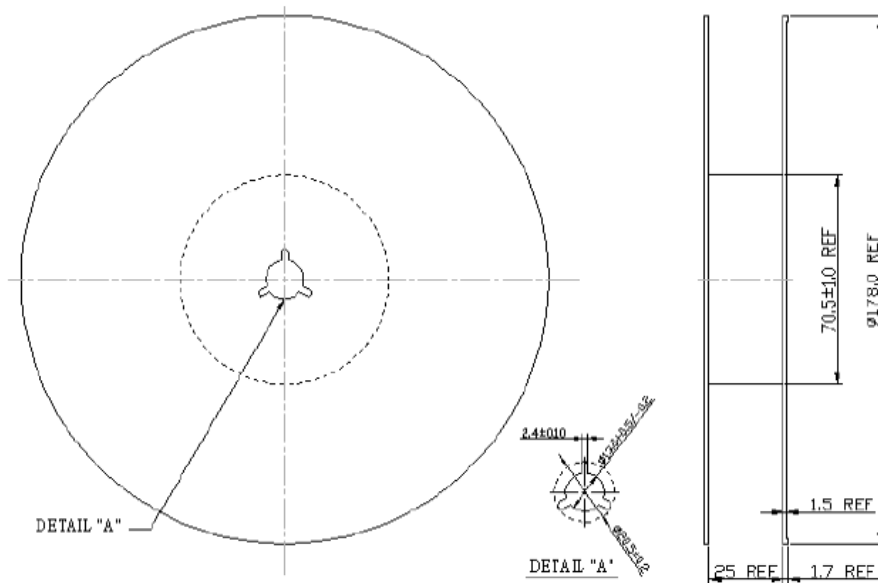
$L1 = 82\text{nH}$, $L2 = L3 = 18\text{nH}$, $L4 = 750\text{nH}$, $C1 = C2 = 68\text{pF}$

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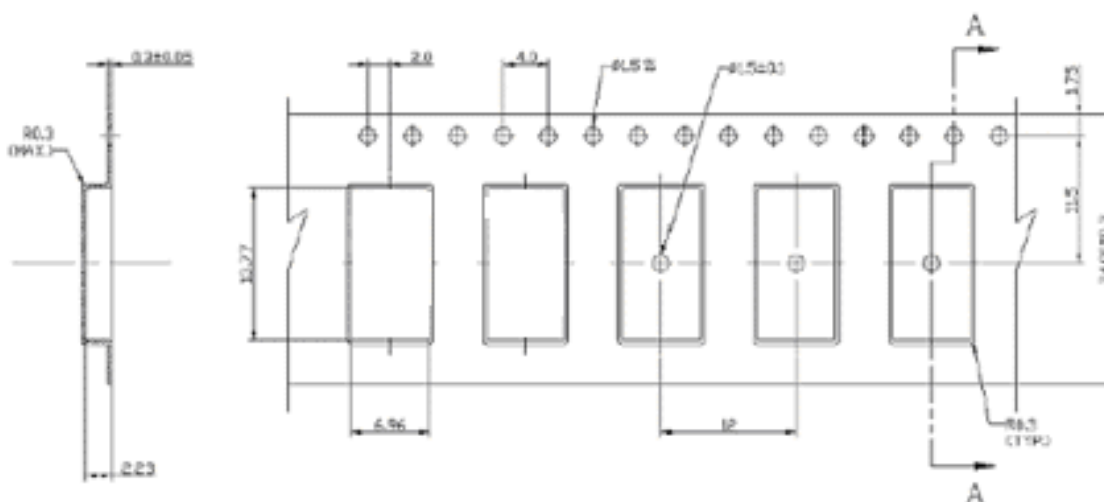
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G. PACKING:

1. REEL DIMENSION:



2 TAPE DIMENSION:



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H. RECOMMENDED REFLOW PROFILE:

