

SAW Filter 464.0MHz
Part No: MP03702

Model: TB0472A
Rev No: 1

A. MAXIMUM RATING:

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

B. CHARACTERISTICS:

1. Ambient Temperature: 25°C
2. Optimal Source Impedance (Balanced): 200Ω
3. Optimal Load Impedance (Balanced): 200Ω

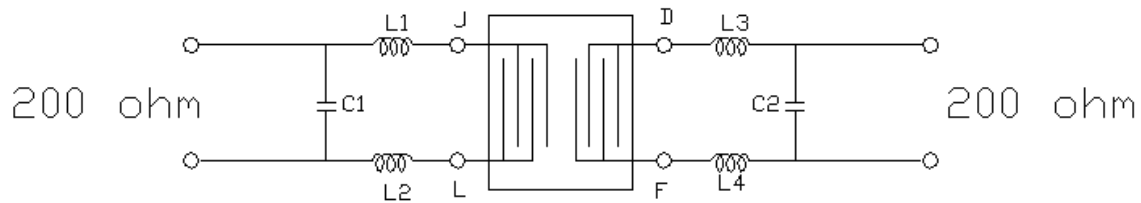
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency Fc MHz	-	464	-	-
Minimum Insertion Loss dB	-	10.5	13.0	-
Return Loss (Fc ± 1.5MHz) dB	8	15	-	-
1dB Bandwidth MHz	-	3.40	-	-
30dB Bandwidth MHz	-	3.96	-	-
Passband Ripple (Fc ± 1.5MHz) dB	-	0.6	1.0	-
Group Delay Ripple (Fc ± 1.5MHz) nS	-	81	250	-
Attenuation: (Reference level from minimum insertion loss) dB				
10MHz ~ 264MHz dB	30	68	-	-
264MHz ~ 368MHz dB	50	59	-	-
368MHz ~ 424MHz dB	45	53	-	-
424MHz ~ 458.6MHz dB	40	46	-	-
469.4MHz ~ 504MHz dB	40	48	-	-
504MHz ~ 664MHz dB	40	58	-	-
664MHz ~ 1000MHz dB	30	57	-	-
Temp Coefficient ppm/°C ²	-0.036			

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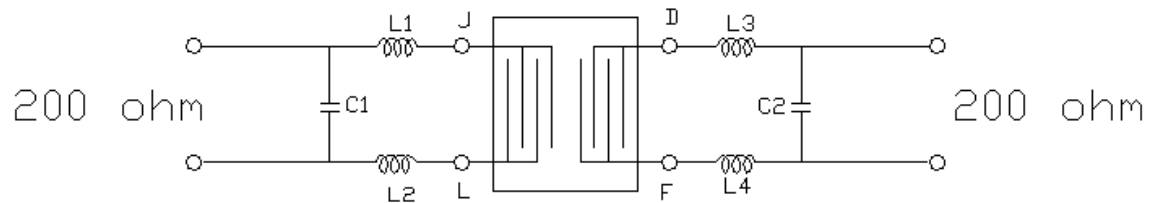
C. MEASUREMENT CIRCUIT:

1. Single end 50ohm to Single end 50ohm



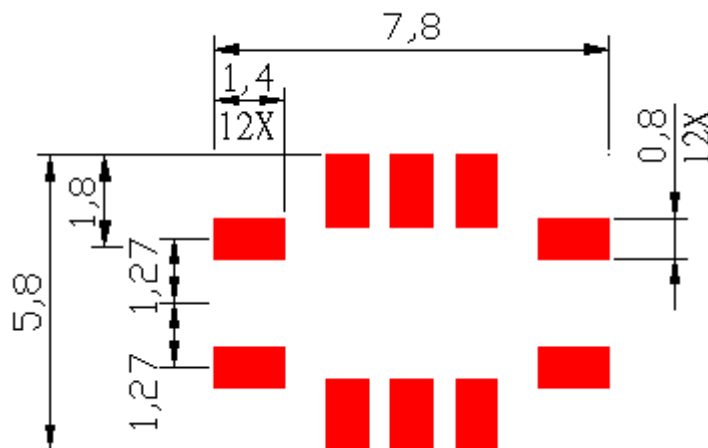
$$L1=L2=10nH \quad C1=18pF \quad L3=L4=12nH \quad C2=18pF$$

2. Balanced 200ohm to Balanced 200ohm



$$L1=L2=8nH \quad C1=18pF \quad L3=L4=8nH \quad C2=18pF$$

D. PCB FOOTPRINT:



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E. FREQUENCY CHARACTERISTICS:

1. S21 Response

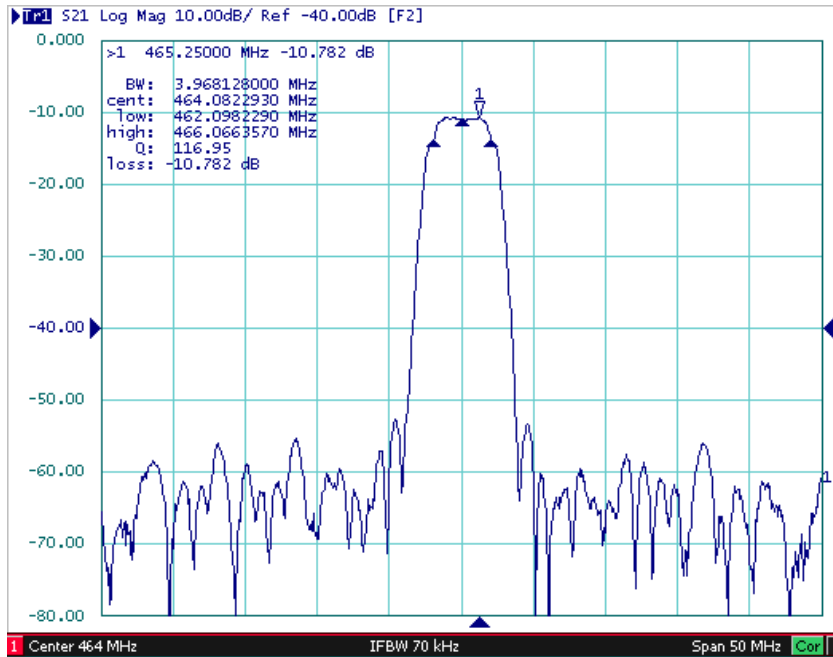


Fig. 1. Horizontal: 5MHz/Div, Vertical: 10dB/Div

2 Passband Ripple

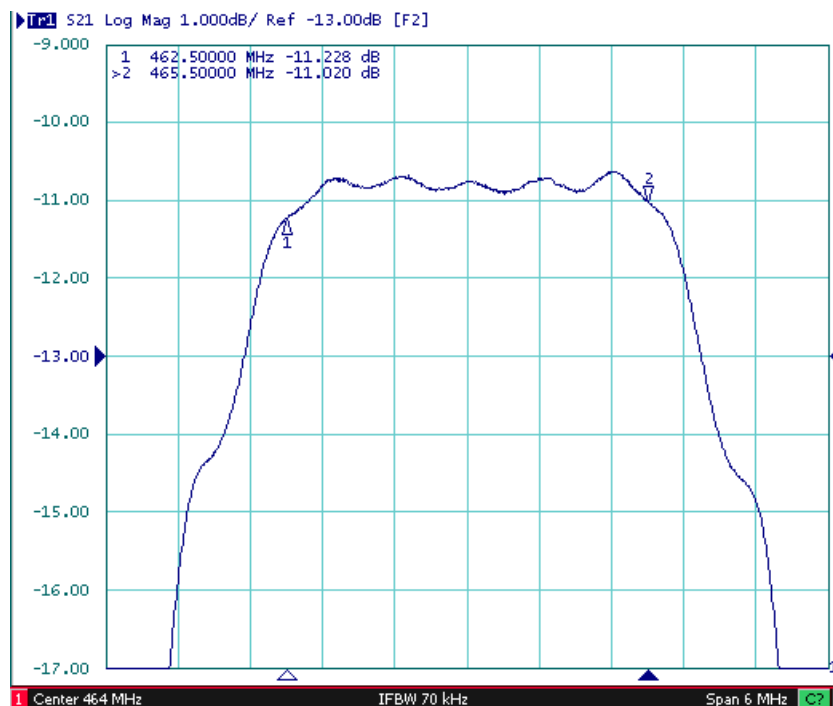


Fig. 2. Horizontal: 0.5MHz/Div, Vertical: 1dB/Div

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3. Group Delay ripple

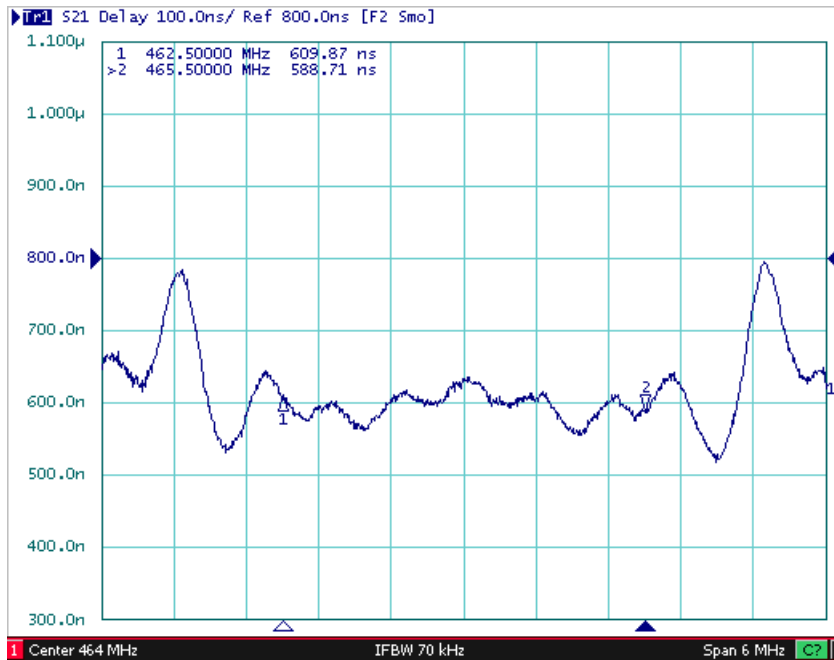


Fig. 3. Horizontal: 0.5MHz/Div, Vertical: 100nS/Div

4. Wideband Response

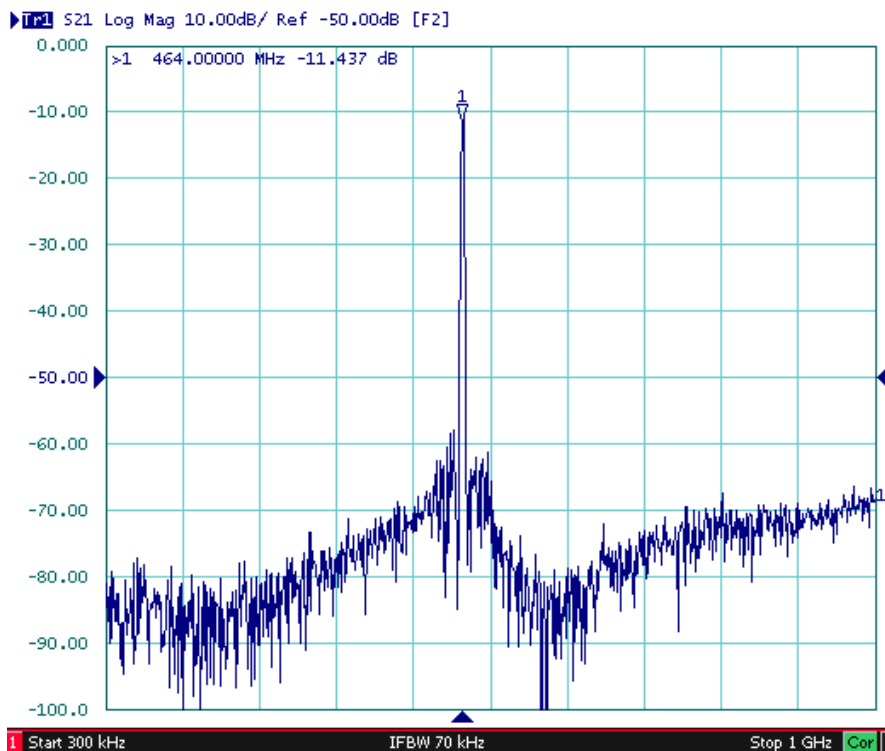
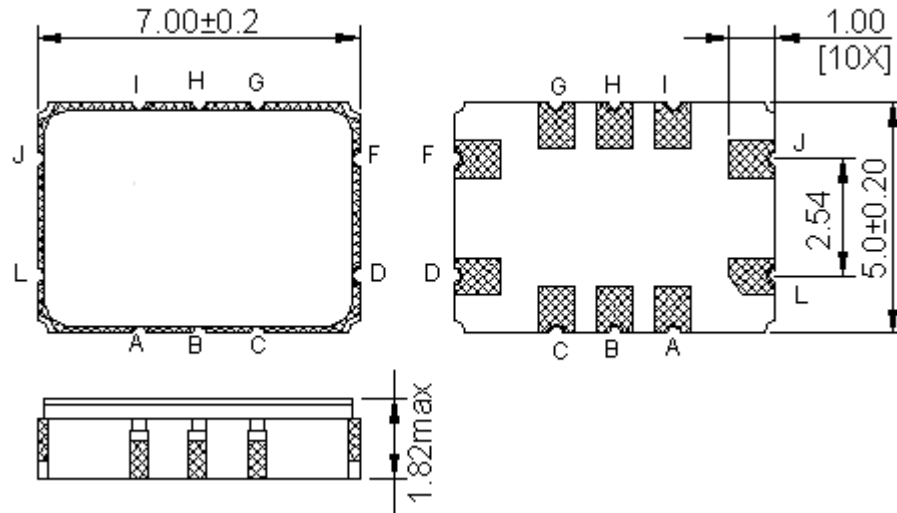


Fig. 4. Horizontal: 300kHz ~ 1GHz Vertical: 10dB/Div

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F. OUTLINE DRAWING:



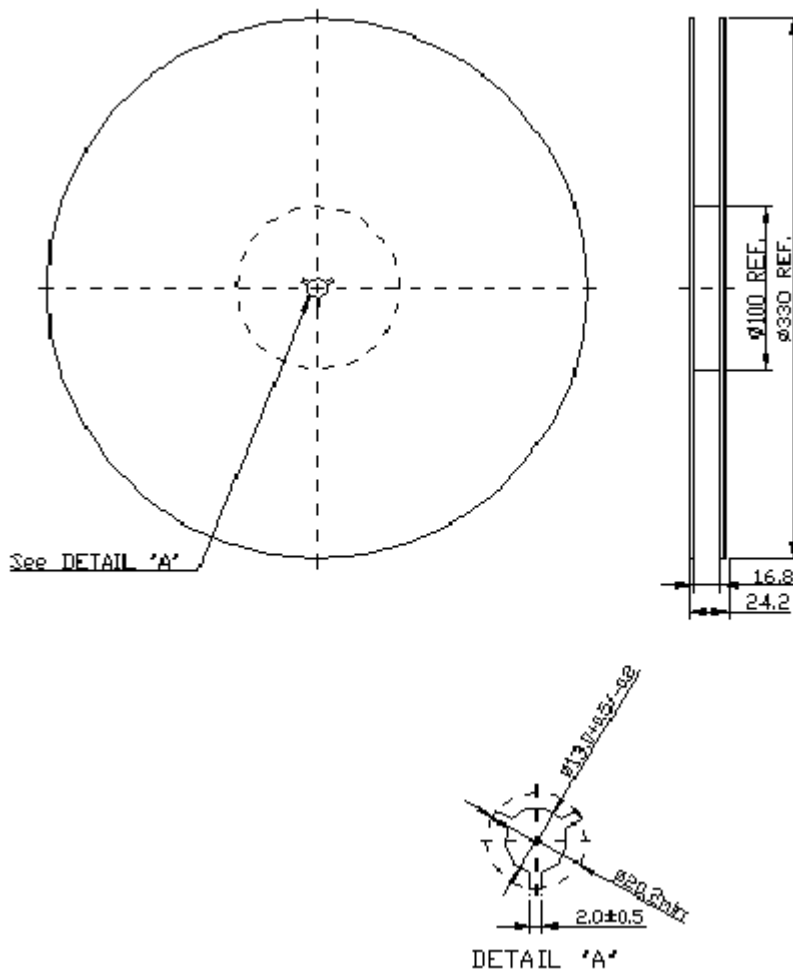
J, L: Balanced Input
F, D: Balanced Output
A, B, C, I, H, G: To be Ground
Unit: mm

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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

