
SAW Filter 442.5MHz**Model: TB0658A****Part No: MP02089****REV. NO.: 1**

A. MAXIMUM RATING:

1. Operating Temperature: -25°C to +70°C
2. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25°C

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	442.5	-	-
Minimum Insertion loss I.L. dB	-	10.2	13.0	-
1 dB Bandwidth MHz	15.0	18.0	-	-
3 dB Bandwidth MHz	18.0	20.6	-	-
Ripple (435.0~450.0MHz) dB	-	0.2	1	-
Group-delay Ripple (435.0~450.0MHz) nsec	-	12	100	-
Attenuation (Reference level from Minimum insertion loss)				
(1) 270.0~405.0MHz dB	35	60	-	-
(2) 480.0~615.0MHz dB	40	56	-	-

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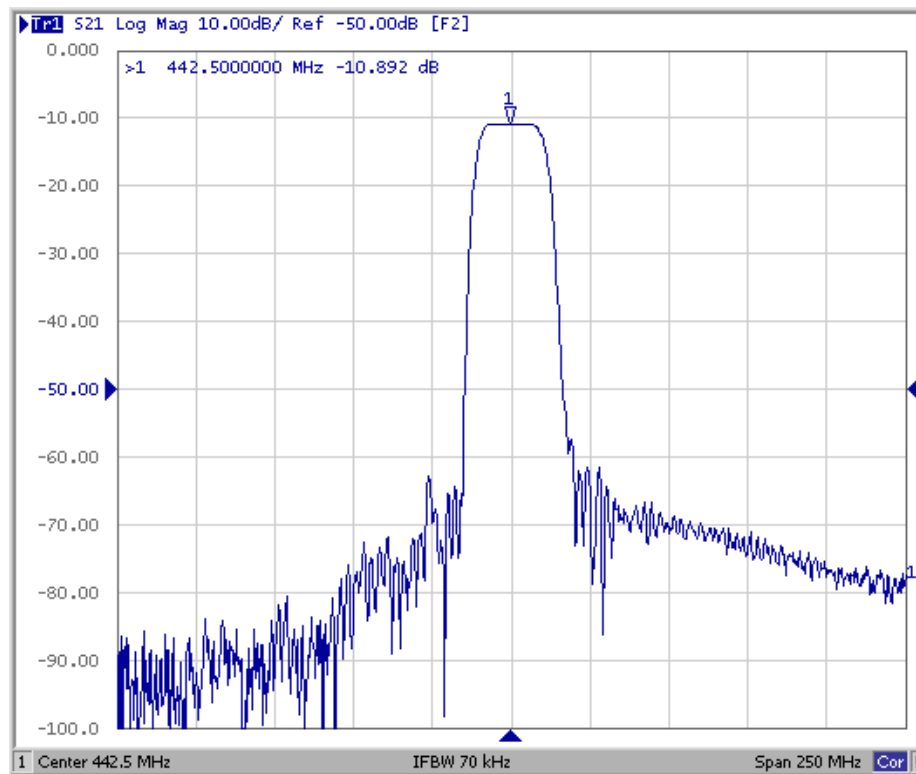
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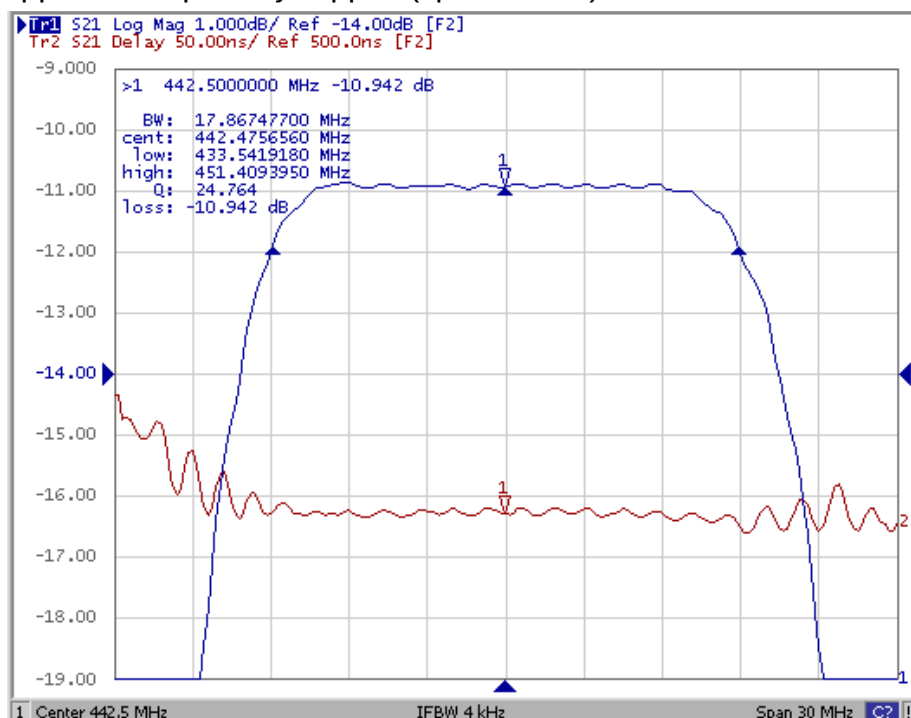
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C. FREQUENCY CHARACTERISTICS:

S21 Response: (span250MHz)



Passband Ripple & Group Delay Ripple: (span30MHz)



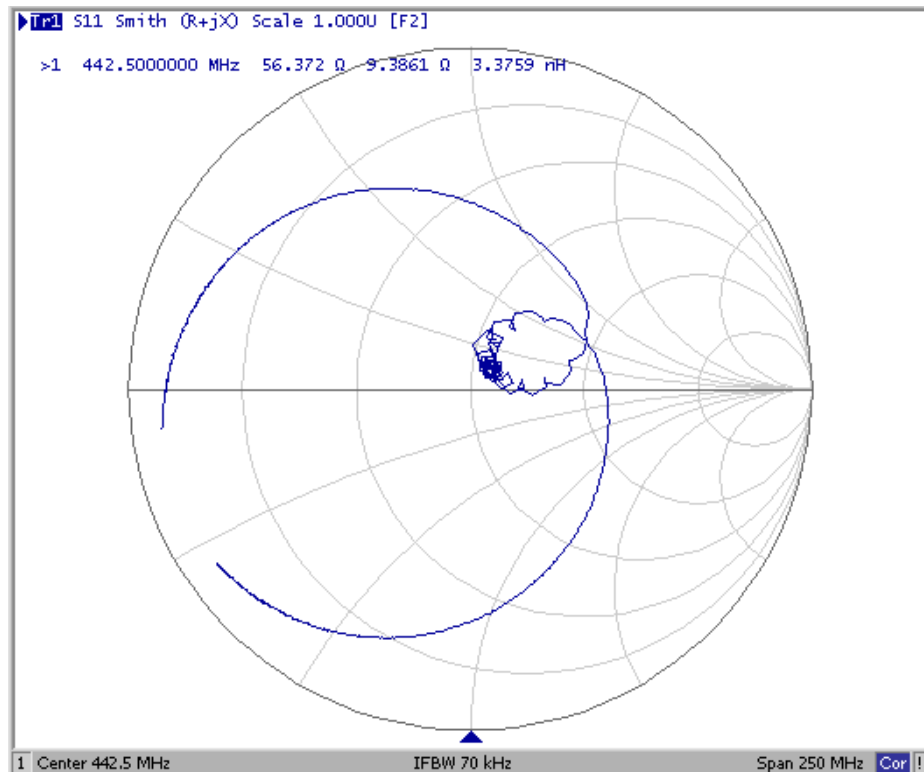
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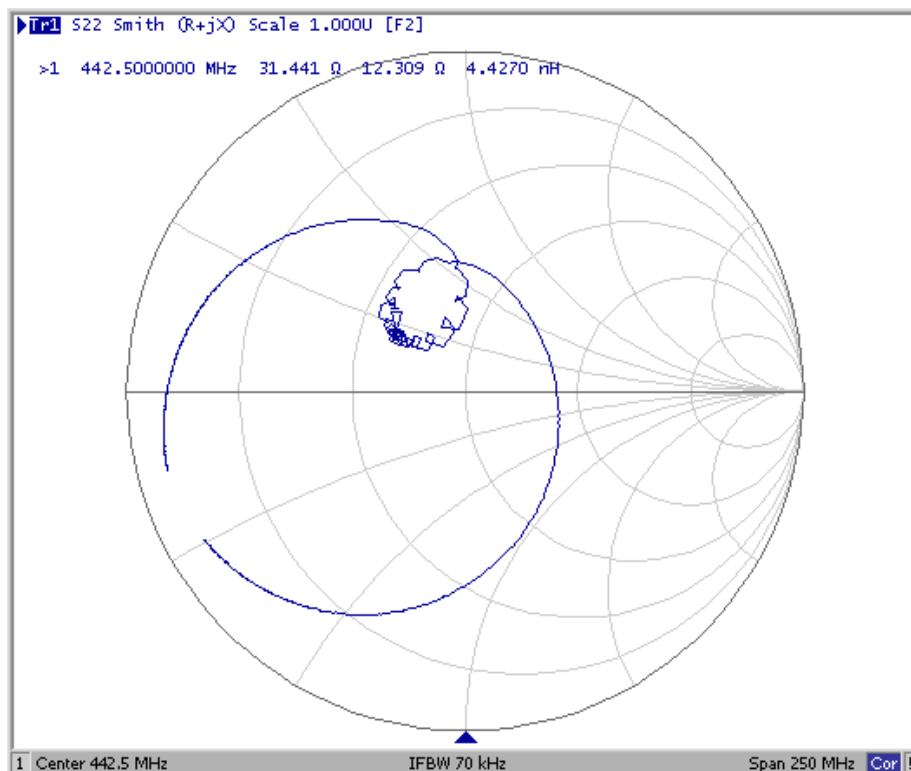
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S11 Smith Chart:



S22 Smith Chart:



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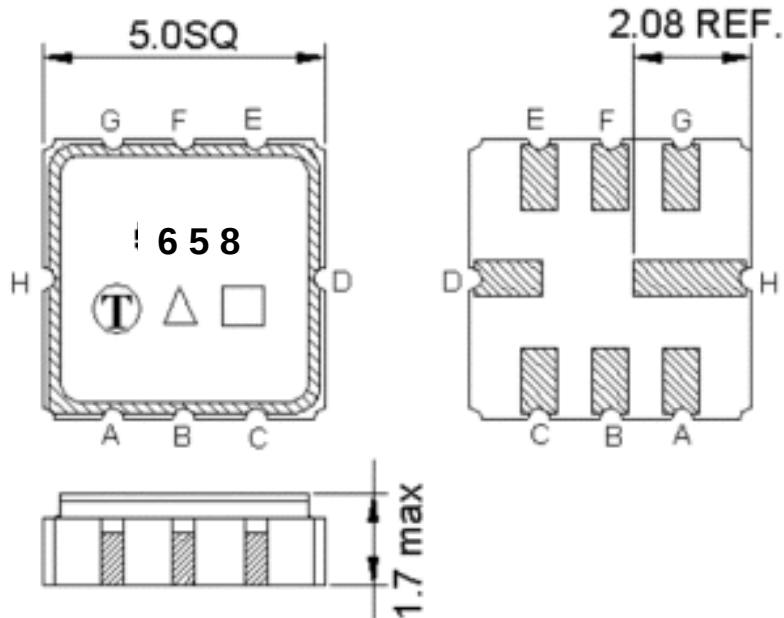
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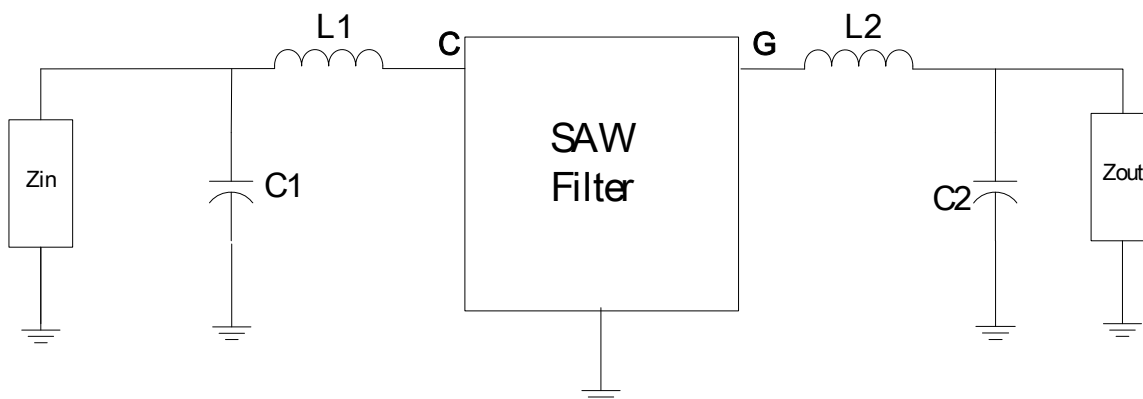
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D. OUTLINE DRAWING:



Pin C: RF input
 Pin G: RF output
 Pin H,D: Case Ground
 Pin A, B, E, F: Ground

E. MATCHING CIRCUIT:



$Z_{in}=Z_{out}=50\Omega$
 $L1=15nH, C1=12pF, L2=15nH, C2=15pF$

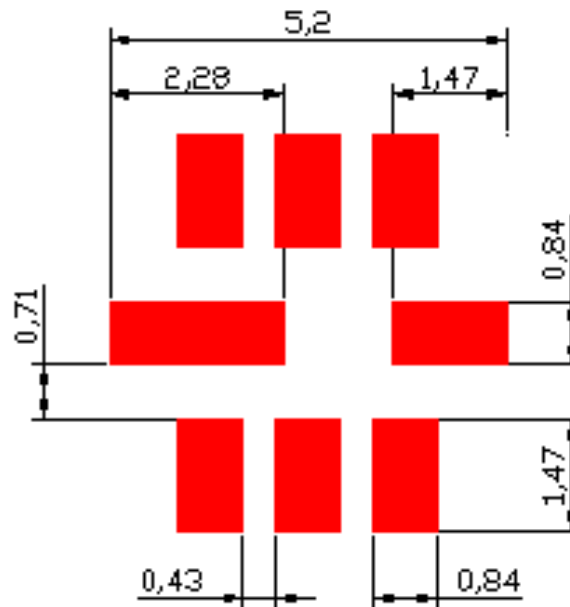
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F. PCB FOOTPRINT:



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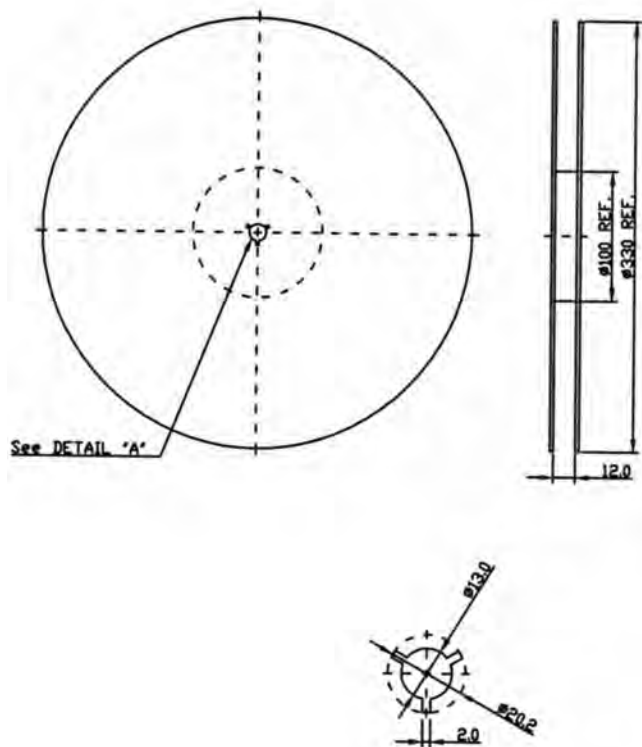
Model: TB0658A

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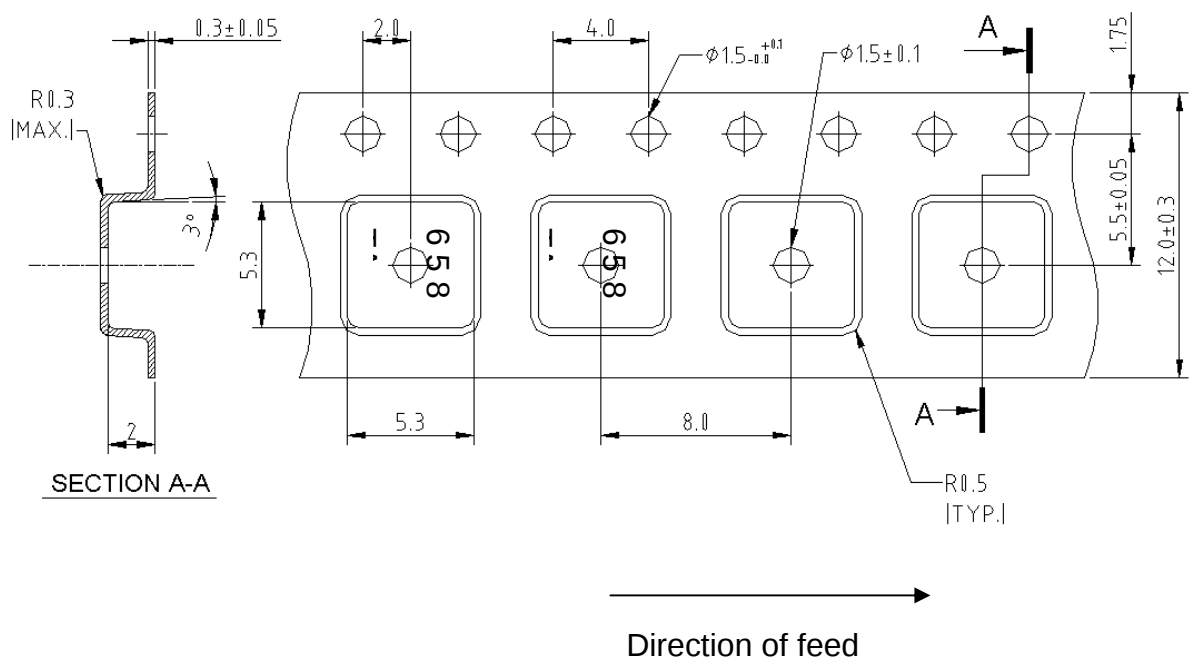
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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



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H. RECOMMENDED REFLOW PROFILE:

