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Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

SAW Filter 153.60MHz — Model: TB0772A
Part No: MP03477 — Rev No: 1

A. MAXIMUM RATING:

1. Operating Temperature: -0℃ ~ +70℃
2. Storage Temperature: -40℃ ~ +85℃
3. Input power: 10dBm

B. CHARACTERISTICS:

Ambient Temperature: 25℃

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency Fc MHz	-	153.6	-	-
Minimum Insertion loss IL dB	-	9.5	13.0	-
1dB BW MHz	20	23.18	-	
Passband Ripple (Fc ± 10.0MHz) dB	-	0.45	1.0	-
Attenuation (Reference to Minimum Insertion loss)				
139.6MHz dB	10	19.5	-	-
168.6MHz dB	10	26	-	-
Temp Coefficient ppm/K	-	-94	-	-
Matching: 1. The input of the filter will be matched to 50Ω 2. The output of the filter will be matched to 50Ω				

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C. FREQUENCY CHARACTERISTICS:

1. S21 Response: (span: 80MHz)

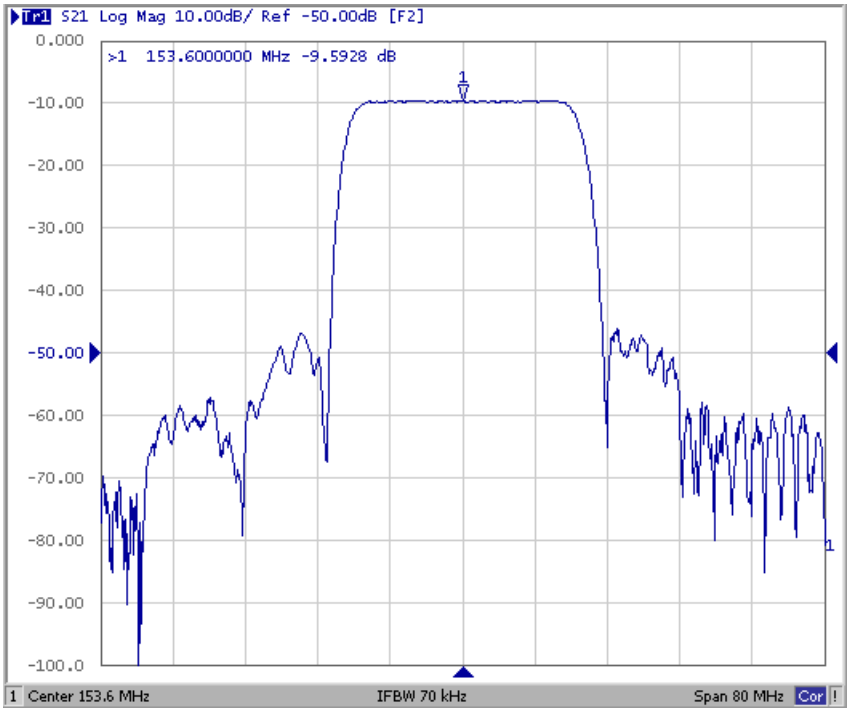


Fig. 1. Horizontal: 8MHz/Div, Vertical: 10dB/Div

2. Group-Delay Ripple: (span: 40MHz)

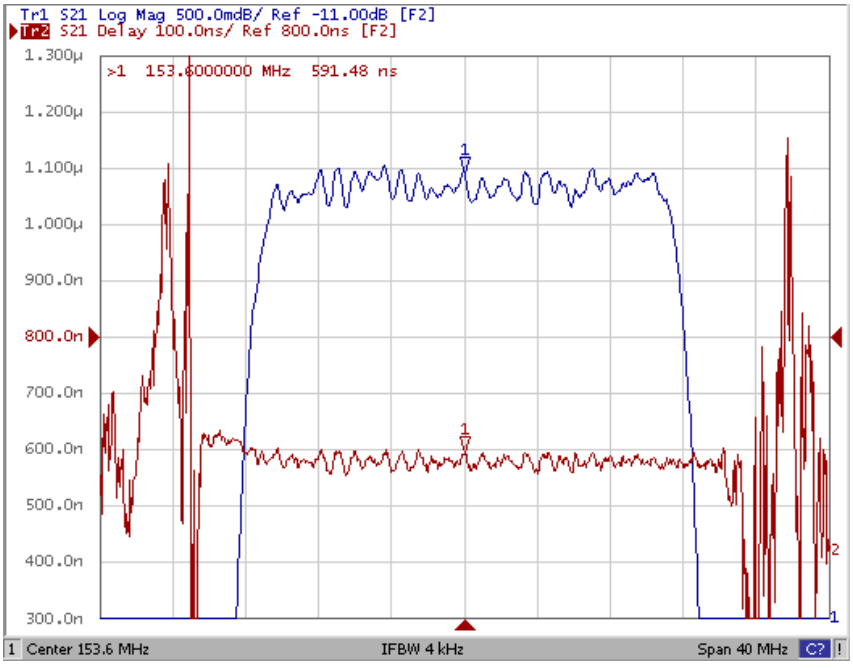
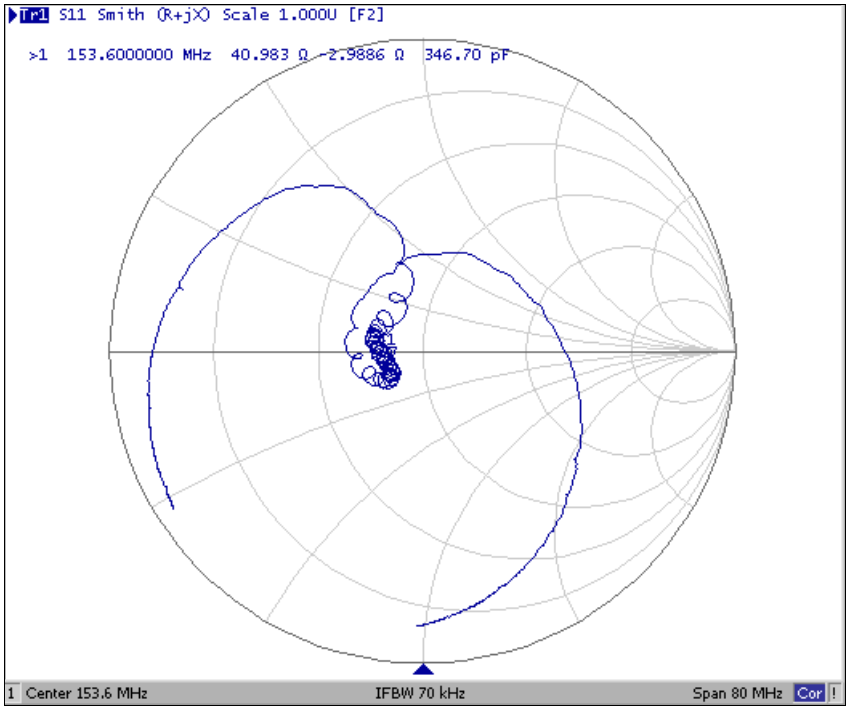


Fig. 2. Horizontal: 4MHz/Div, Vertical: 100nec/Div

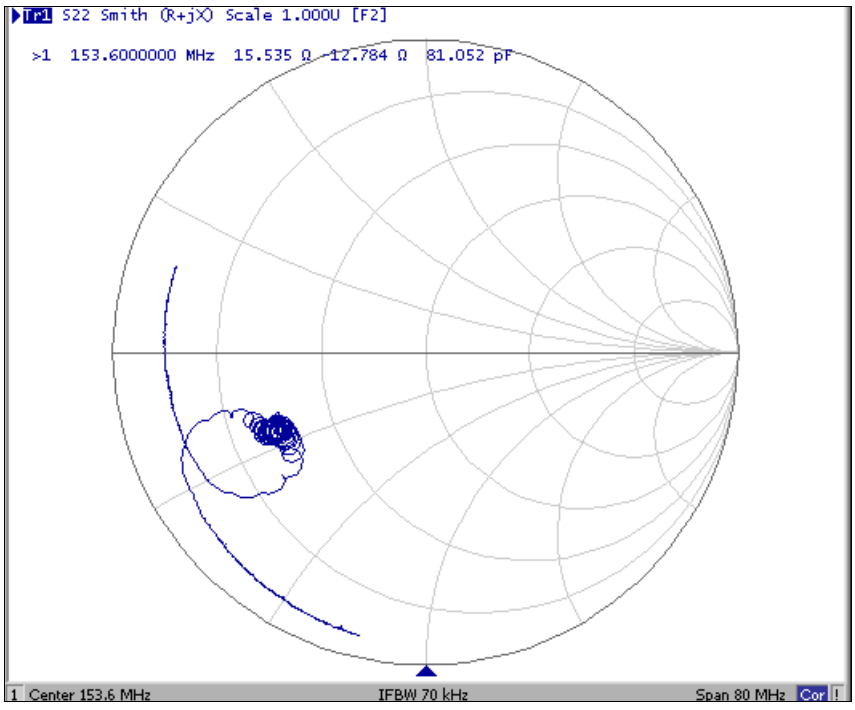
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3. S11 Smith Chart: (span: 80MHz)



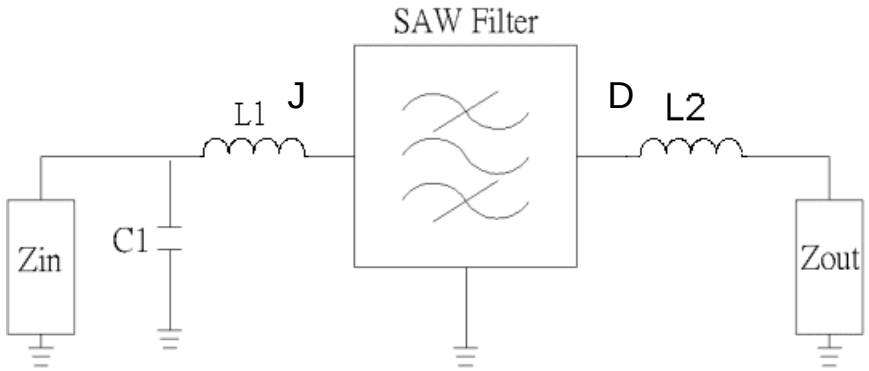
4. S22 Smith Chart (span: 80MHz)



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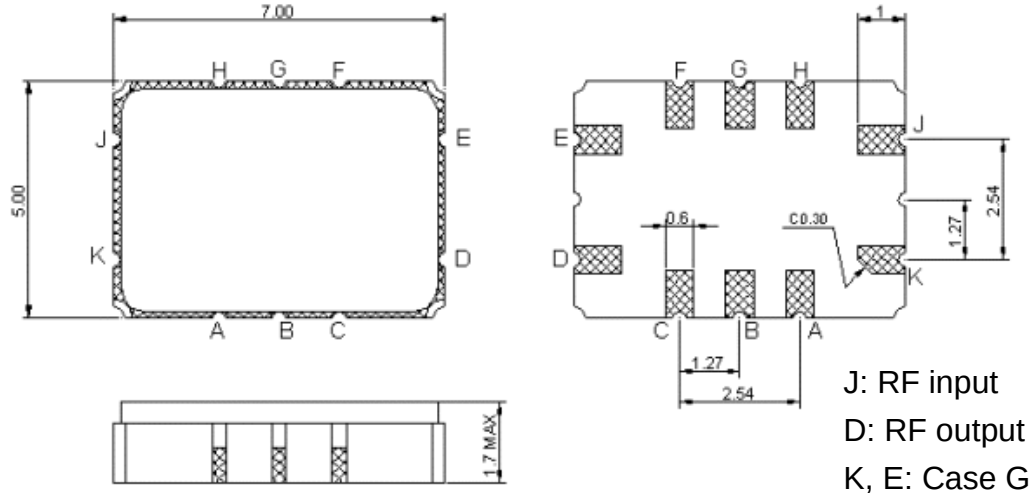
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D. MEASUREMENT CIRCUIT:



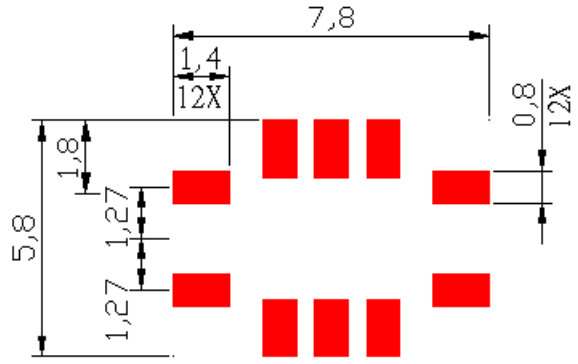
Zin and Zout are 50Ω.
L1=82nH, C1=27pF, L2=33nH

E. OUTLINE DRAWING:



J: RF input
D: RF output
K, E: Case Ground
A, B, C, F, G, H: Ground
Unit: mm

F. PCB FOOTPRINT:

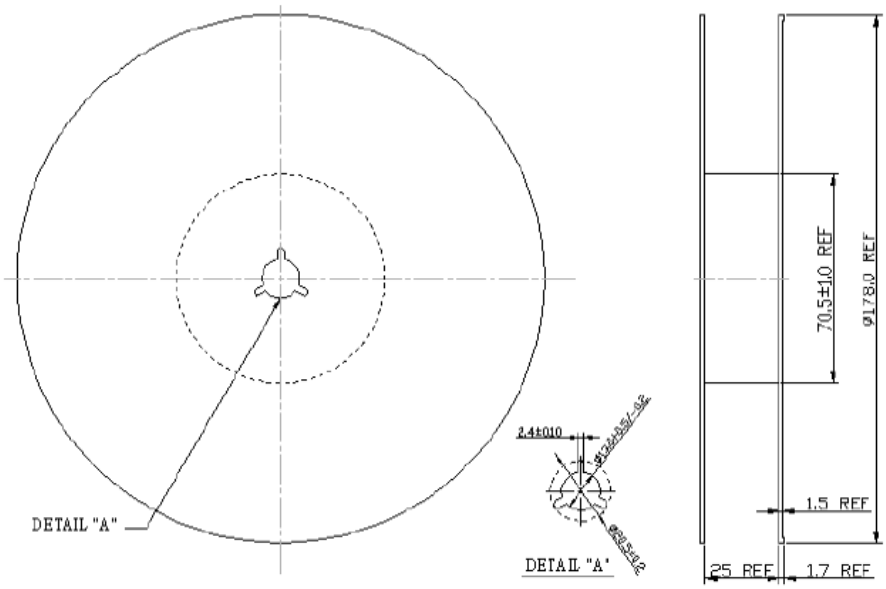


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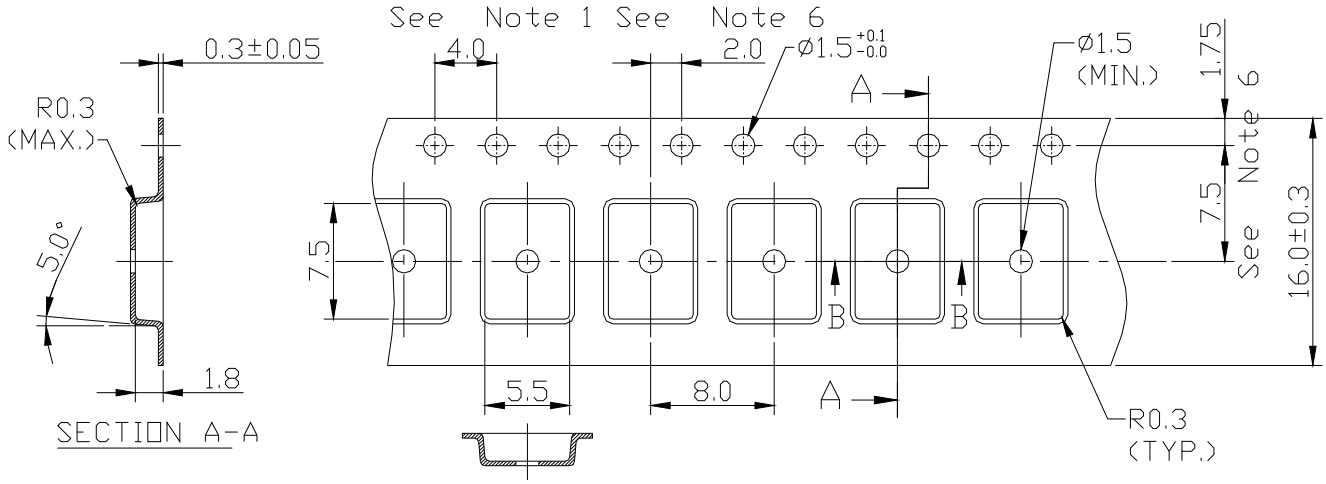
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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



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H. RECOMMENDED REFLOW PROFILE:

