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

SAW Filter 167.50MHz — Model: TB0755A
Part No: MP03480 — Rev No: 1

A. MAXIMUM RATING:

1. Operating Temperature: -20℃ ~ +80℃
2. Storage Temperature: -40℃ ~ +85℃
3. Input power: 10dBm

B. CHARACTERISTICS:

Ambient Temperature: 25℃

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency Fc MHz	-	167.5	-	-
Minimum Insertion loss IL 151.5MHz ~ 183.5MHz dB	-	13.0	15.0	-
Passband Ripple 151.5MHz ~ 183.5MHz dB	-	0.6	1.5	-
Attenuation				
10MHz ~ 143MHz dB	40	52	-	-
196MHz ~ 400MHz dB	40	45	-	
Substrate Material	YZ-LiNbO3			-
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: 200MHz)

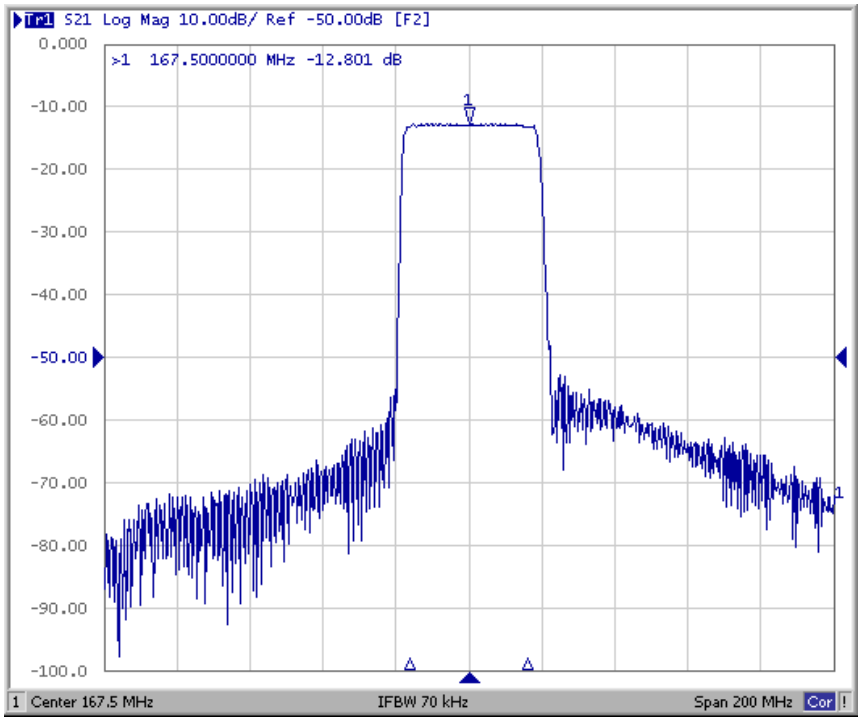

Fig. 1. Horizontal: 20MHz/Div, Vertical: 10dB/Div

2. Group-Delay Ripple: (span: 50MHz)

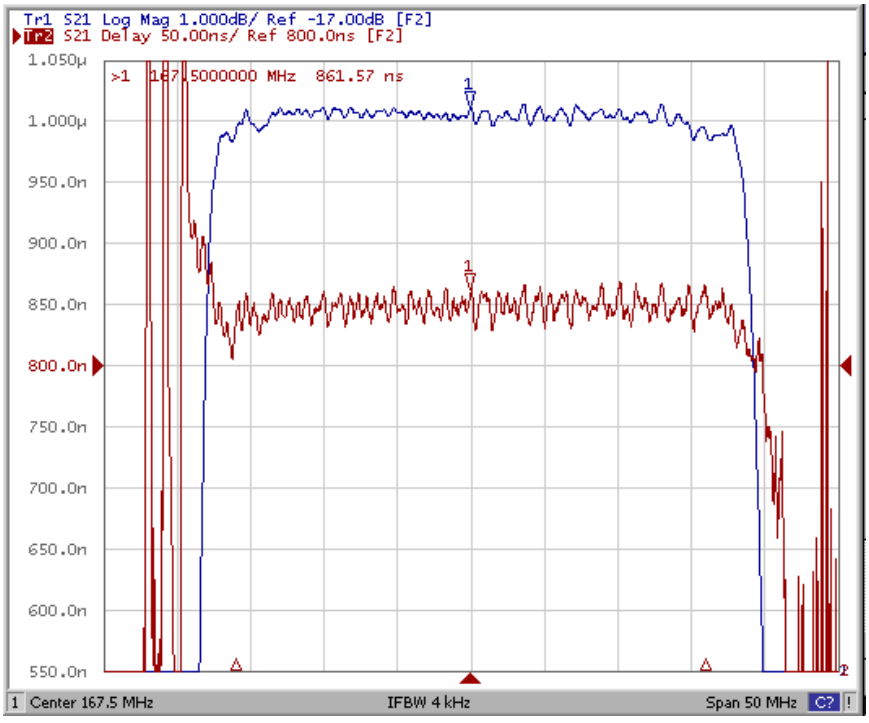

Fig. 2. Horizontal: 5.0MHz/Div, Vertical: 50nec/Div

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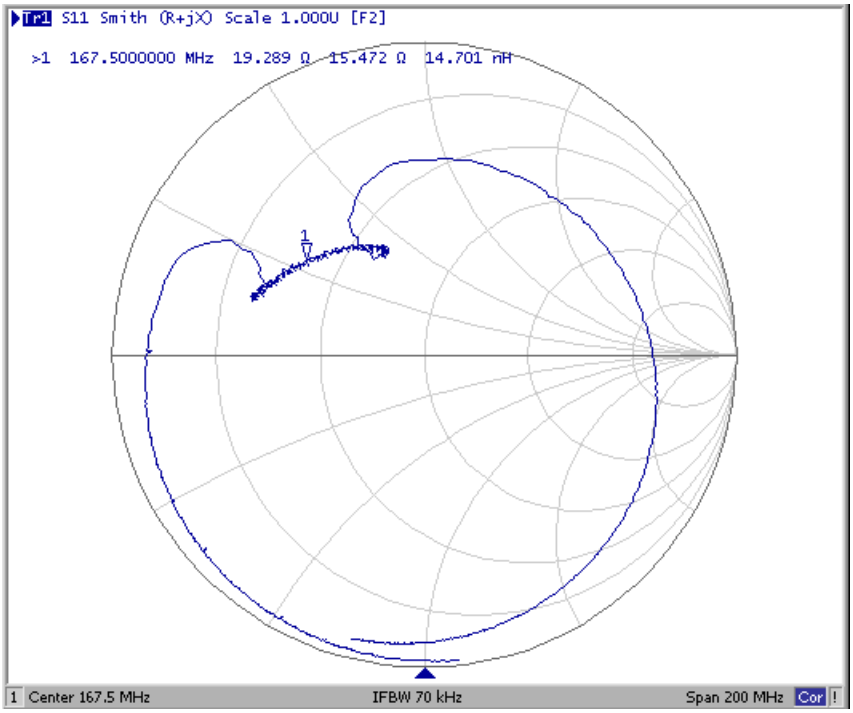
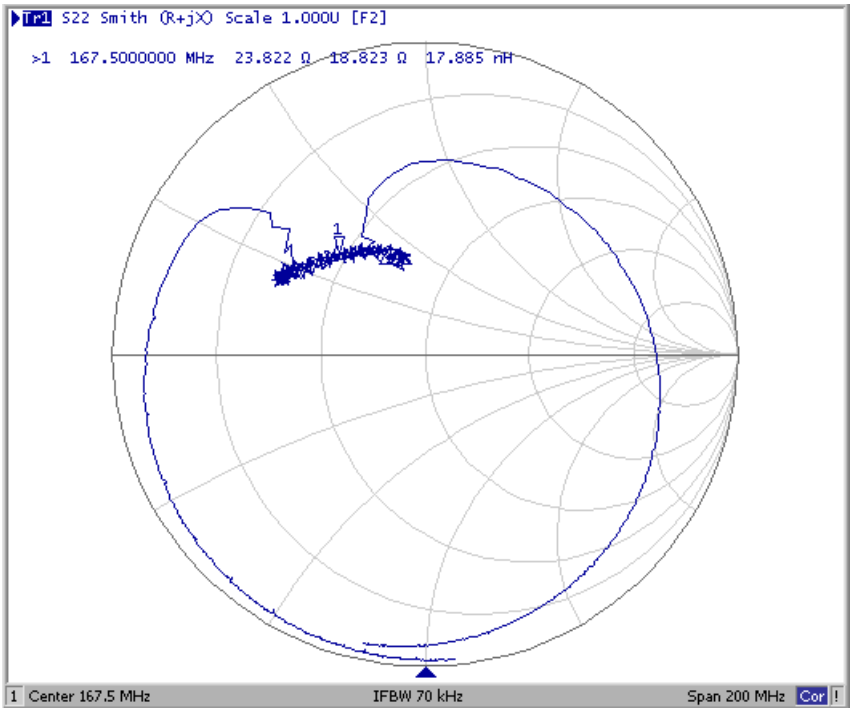
3. S11 Smith Chart: (span: 200MHz)



4. S22 Smith Chart (span: 200MHz)



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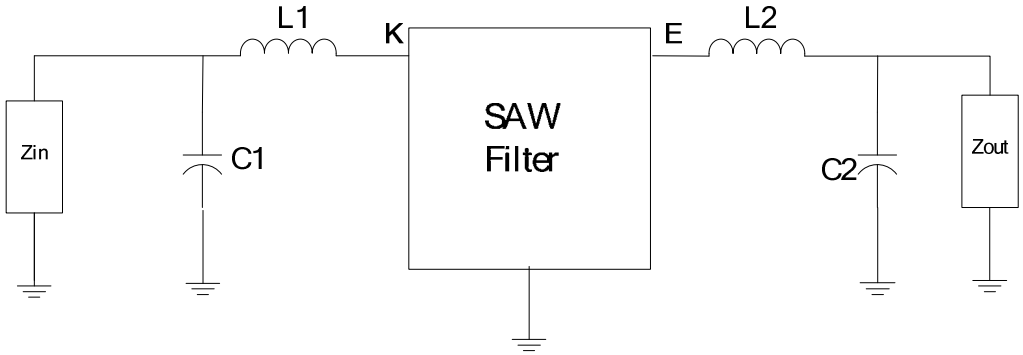
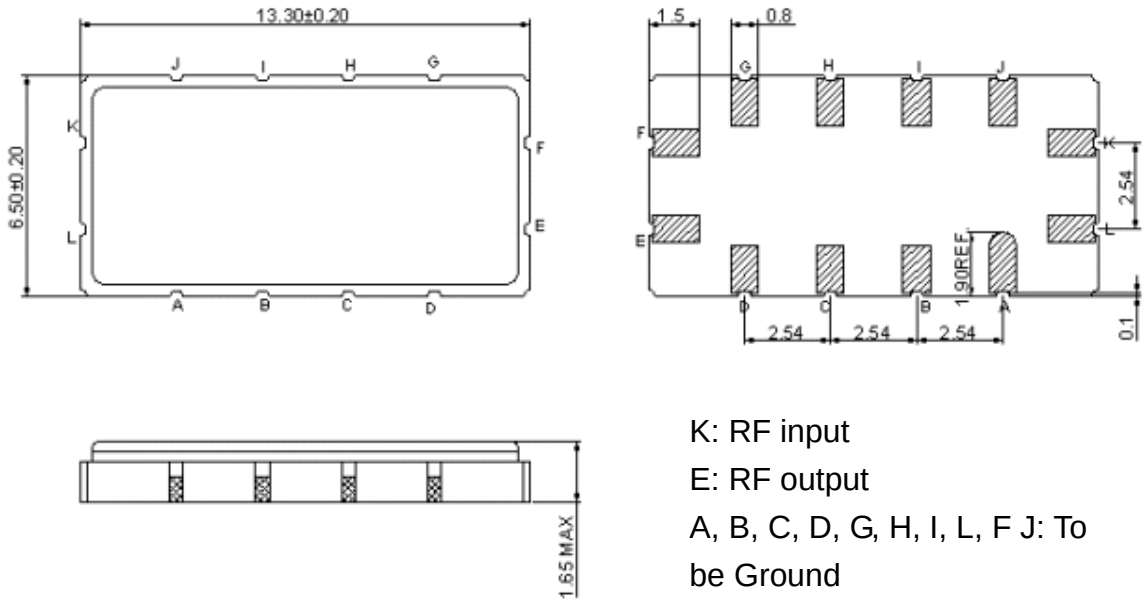
D. MEASUREMENT CIRCUIT:

$Z_{IN} = Z_{OUT} = 50\Omega$



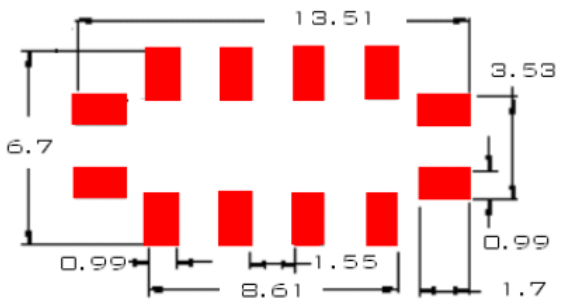
L1 = 56nH, C1 = 18pF, L2 = 56nH, C2 = 18pF

E. OUTLINE DRAWING:



K: RF input
E: RF output
A, B, C, D, G, H, I, L, F J: To be Ground
Unit: mm

F. PCB FOOTPRINT:



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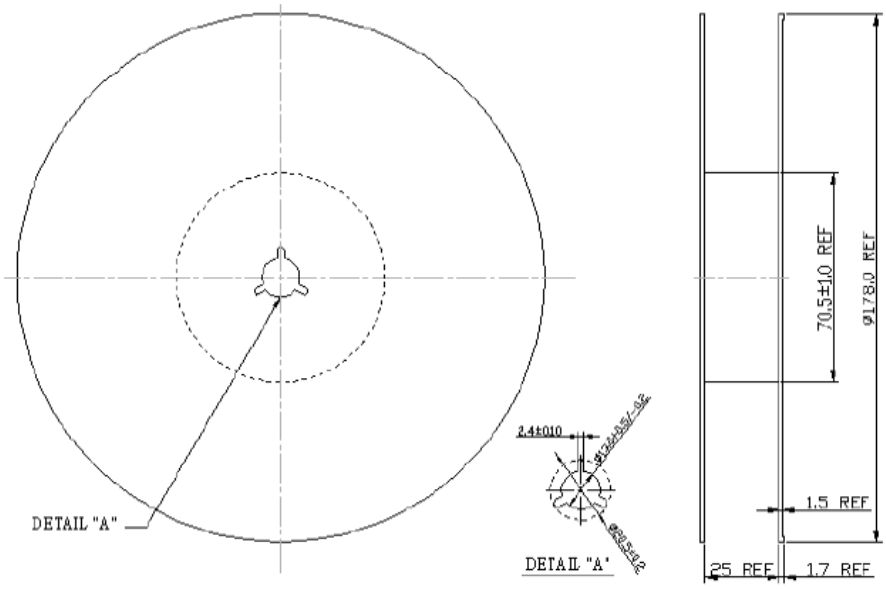
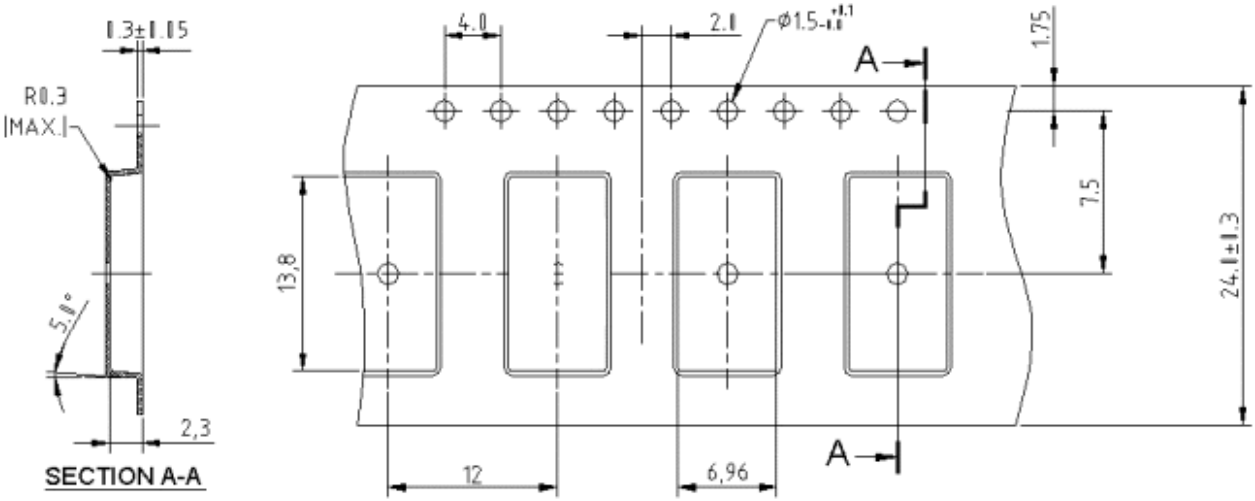
G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



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H. RECOMMENDED REFLOW PROFILE: