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

**SAW Filter 575MHz** **Model: TB0759A**

**Part No: MP03044** **Rev No: 1**

## A. MAXIMUM RATING:

1. Operating Temperature: -20℃ ~ +75℃
2. Storage Temperature: -40℃ ~ +85℃
3. Input power: 10dBm

## B. CHARACTERISTICS:

Ambient Temperature: 25℃

| Characteristics | Value | | | Note |
|---|---|---|---|---|
| | Min. | Typ. | Max. | |
| Center frequency Fc MHz | - | 575.0 | - | - |
| Minimum Insertion loss IL dB | - | 13.2 | 14.0 | - |
| Amplitude Ripple (560 ~ 590MHz) dB | - | 0.8 | 1.5 | |
| Group Delay Variation (560 ~ 590MHz) ns | - | 10 | 45 | |
| Absolute group delay (560 ~ 590MHz) ns | - | 290 | - | - |
| Attenuation (Reference level from 0dB) | | | | |
| 0 ~ 506MHz dB | 50 | 65 | - | - |
| 506 ~ 536MHz dB | 50 | 62 | - | - |
| 536 ~ 548MHz dB | 45 | 60 | - | - |
| 638 ~ 656MHz dB | 45 | 65 | - | - |
| 717 ~ 1000MHz dB | 50 | 70 | | |
| 1000 ~ 1500MHz dB | 40 | 63 | | |
| Temp Coefficient ppm/K | - | -23 | - | - |
| Matching:<br>1. The input of the filter will be matched to 50Ω<br>2. The output of the filter will be matched to 50Ω | | | | |

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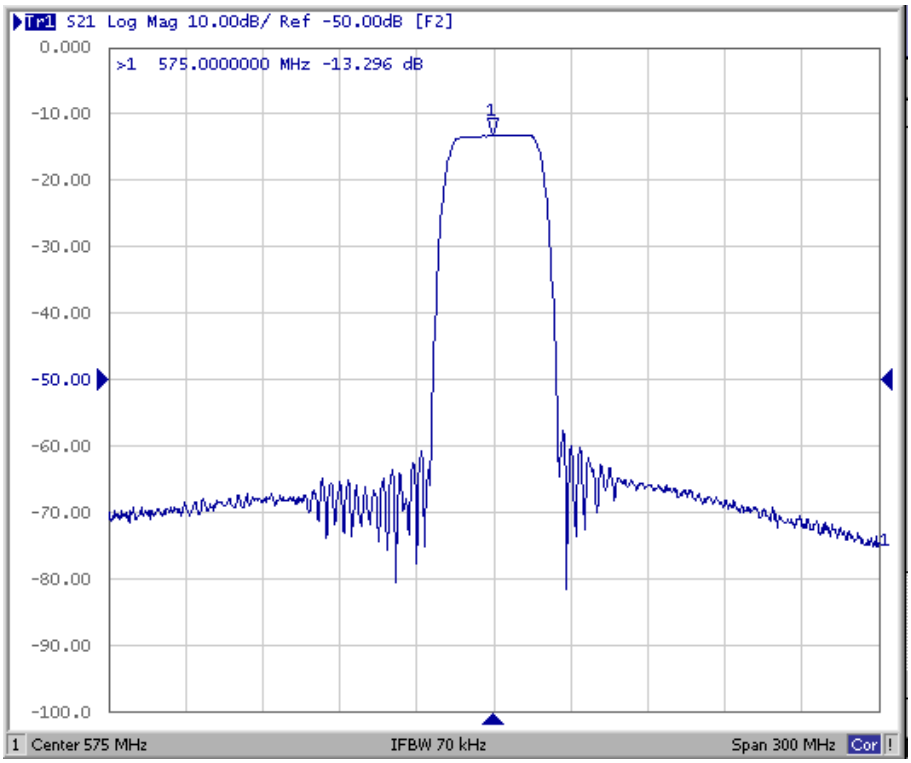
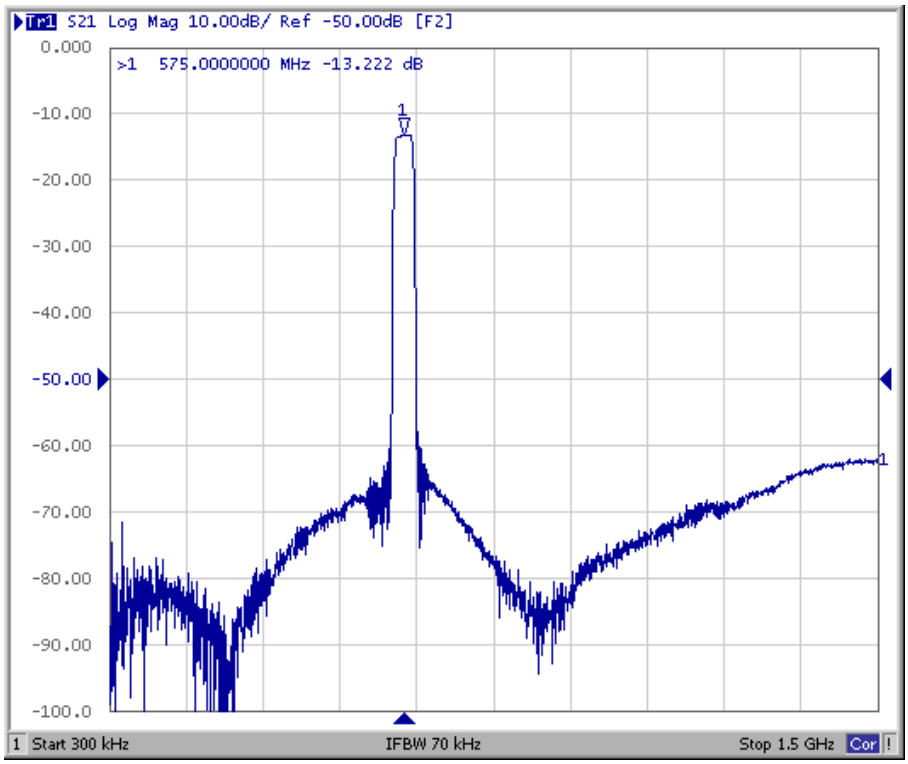
## C. FREQUENCY CHRACTERISTICS:

1. S21 Response: (span 300MHz)




2. S21 Response: (span 1.5GHz)



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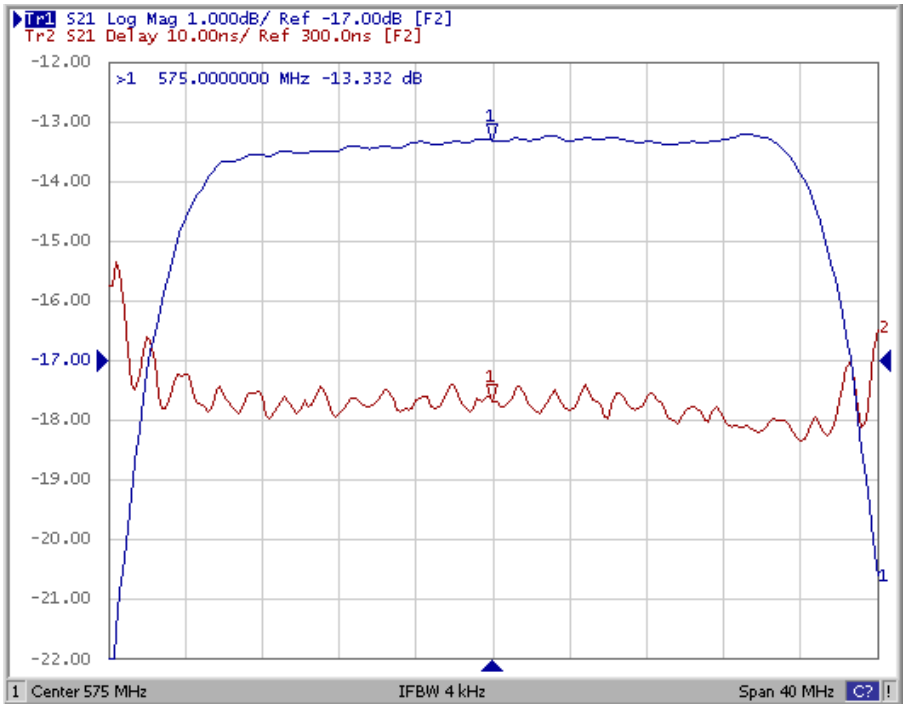
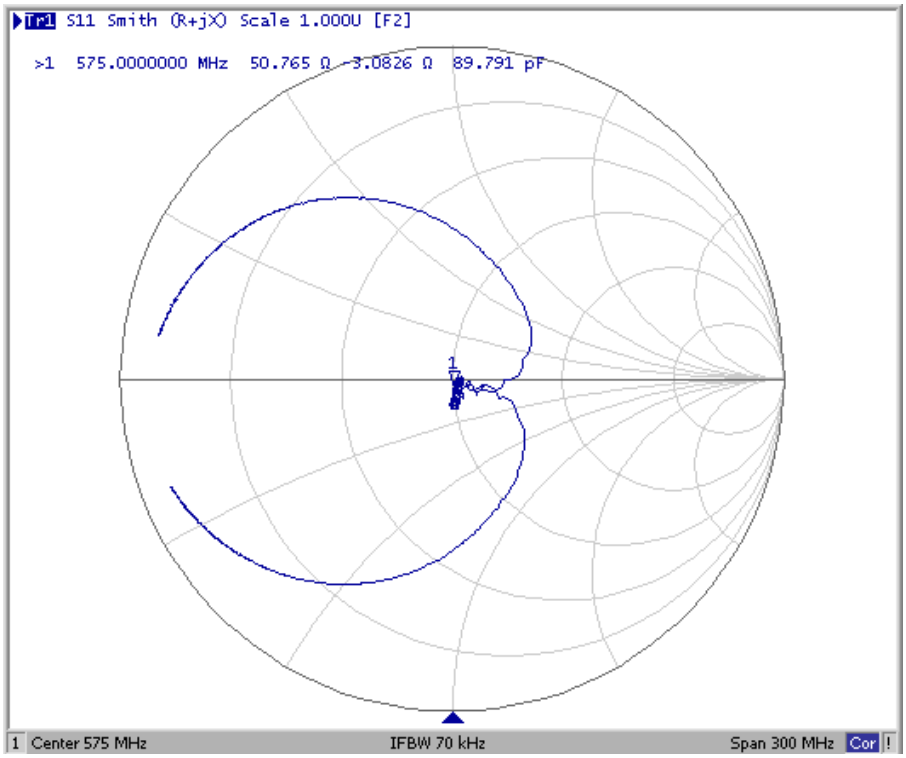
3. Passband of Response: (span: 40MHz)




4. S11 Smith Chart: (span 300MHz)



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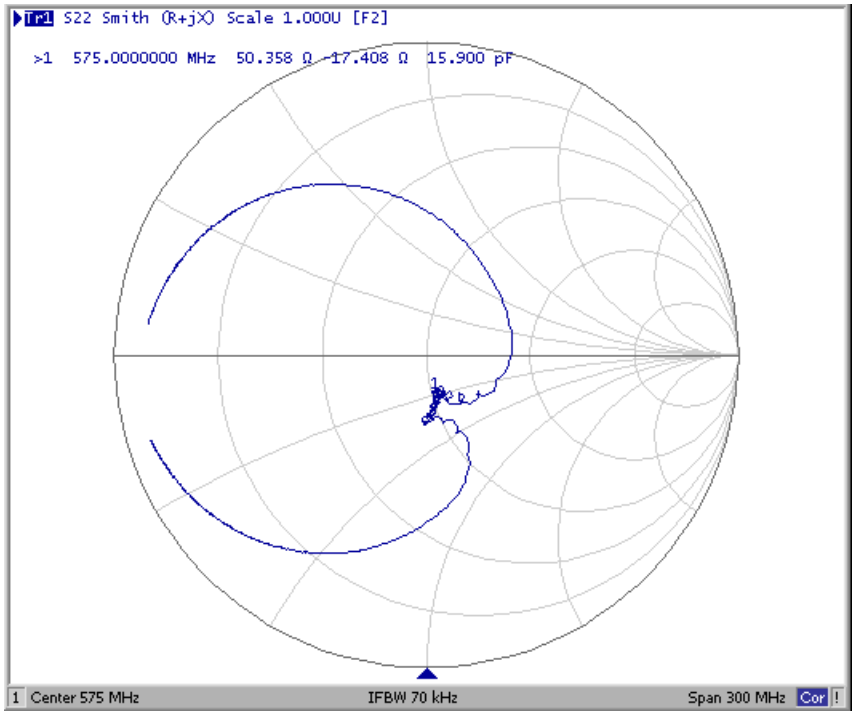
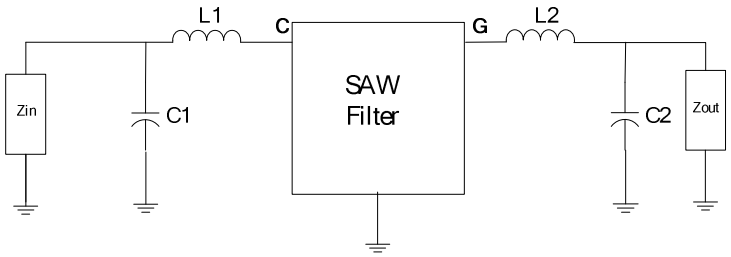
5. S22 Smith Chart: (span 300MHz)

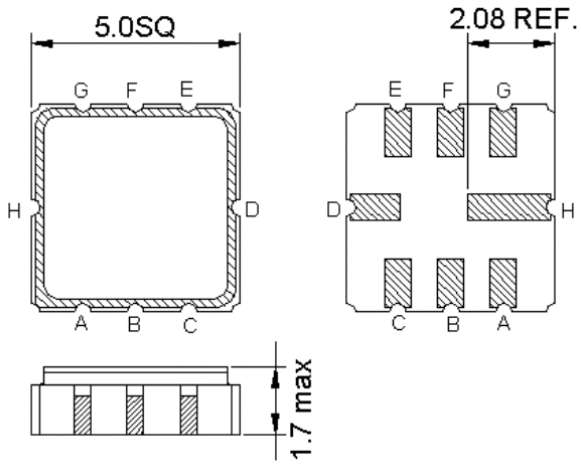



## D. TEST CIRCUIT:




$Z_{IN}$ and $Z_{OUT}$ are 50Ω, L1 = 6.8nH, C1 = 12pF, L2 = 10nH, C2 = 12pF

## E. OUTLINE DRAWING:




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

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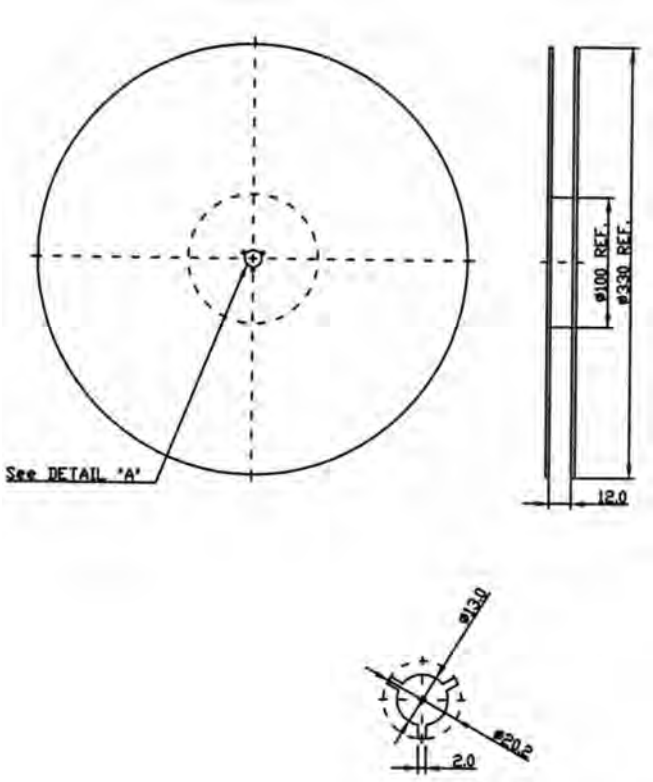
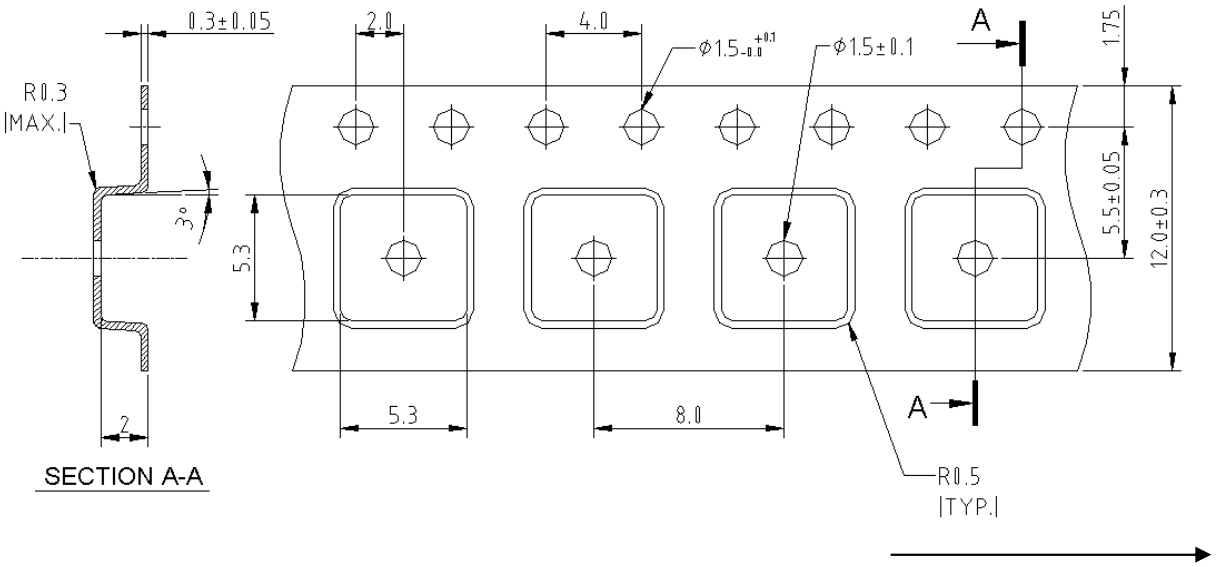
## F. PACKING:

1. REEL DIMENSION




2. TAPE DIMENSION



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## G. RECOMMENDED REFLOW PROFILE: