

SAW Filter 265.50MHz

Model: TB0900A

Part No: MP05887

Rev No: 1

A. MAXIMUM RATING:

1. Operating temperature range: -30°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 10 dBm
4. Maximum DC Voltage: 10V

B. CHARACTERISTICS:

| Item | Unit | Min. | Typ. | Max. |
|--|--------|------|-------|------|
| Center frequency Fc | MHz | - | 265.5 | - |
| Insertion Loss IL | dB | - | 8.1 | 12.0 |
| -1dB bandwidth | MHz | 29 | 32 | - |
| Passband Ripple Fc ± 11MHz | dB | - | 0.5 | 1.0 |
| Attenuation: (Reference level from Min IL) | | | | |
| 10MHz ~ 185MHz | dB | 40 | 62 | - |
| 185MHz ~ 215MHz | dB | 40 | 58 | - |
| 310MHz ~ 340MHz | dB | 40 | 50 | - |
| 340MHz ~ 1000MHz | dB | 40 | 60 | - |
| Temperature Coefficient | ppm/°C | - | -94 | - |
| Source Impedance | Ohm | - | 50 | - |
| Load Impedance | Ohm | - | 50 | - |

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C. FREQUENCY CHARACTERISTICS:

1. Narrow band Response: (span 200MHz)

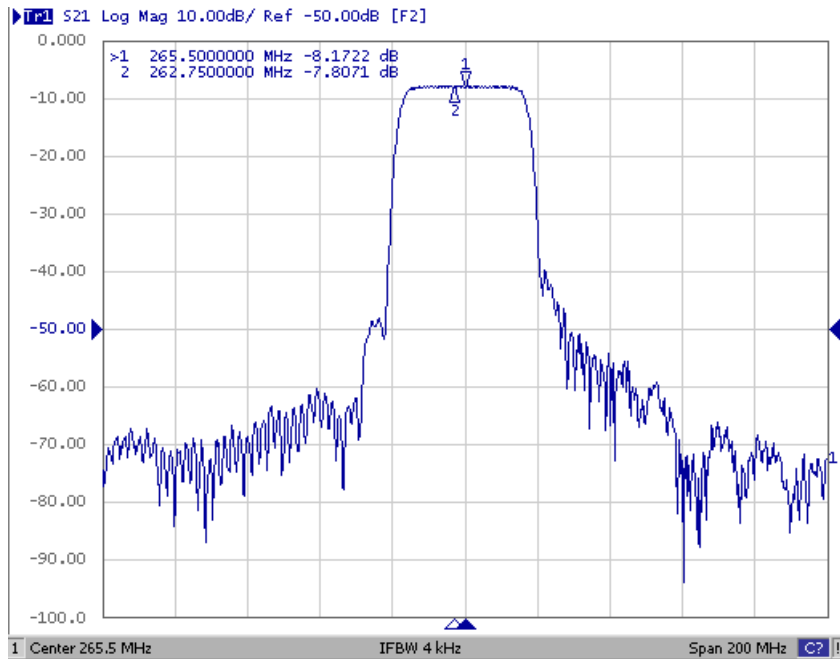


Fig. 1. Horizontal: 20MHz / Div, Vertical: 10Db / Div

2. Pass band Response and Group Time Delay response:

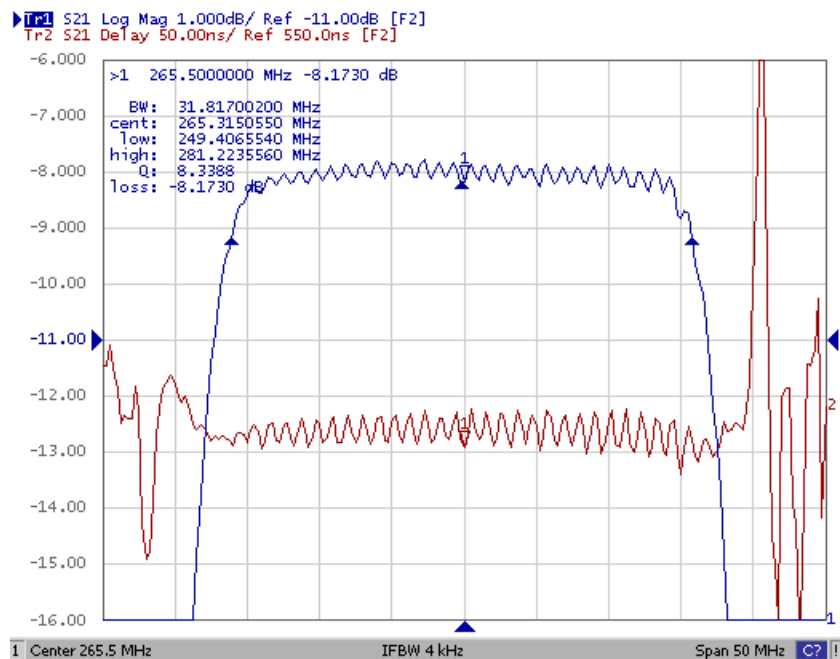
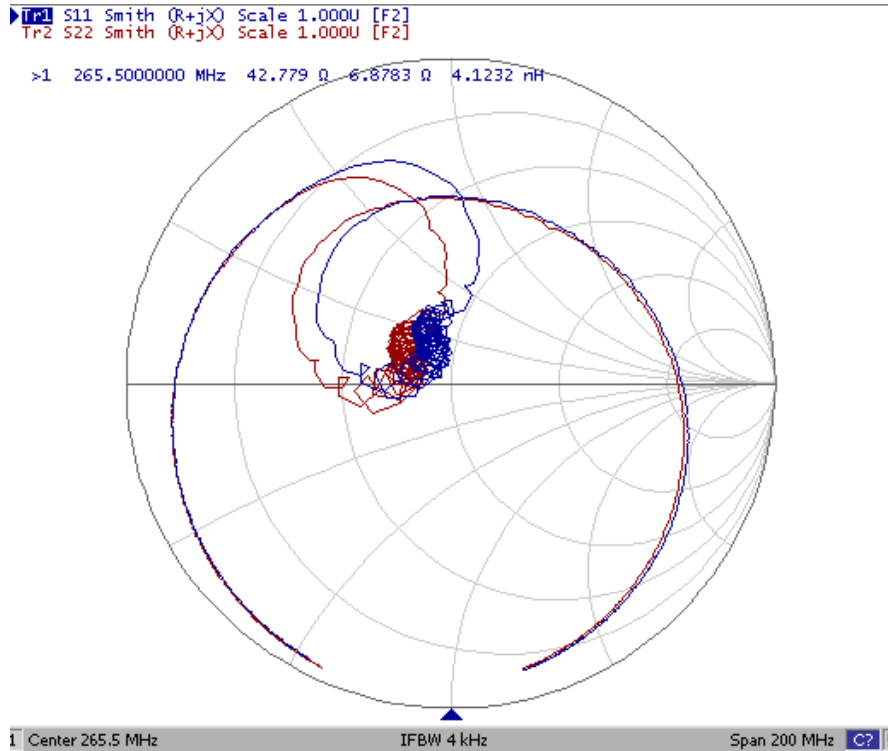


Fig. 2. Horizontal: 5MHz / Div, Vertical: 1dB / Div, Vertical: 50ns / Div

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3. Smith Chart:



4. Wide band Response: (span 1000MHz)

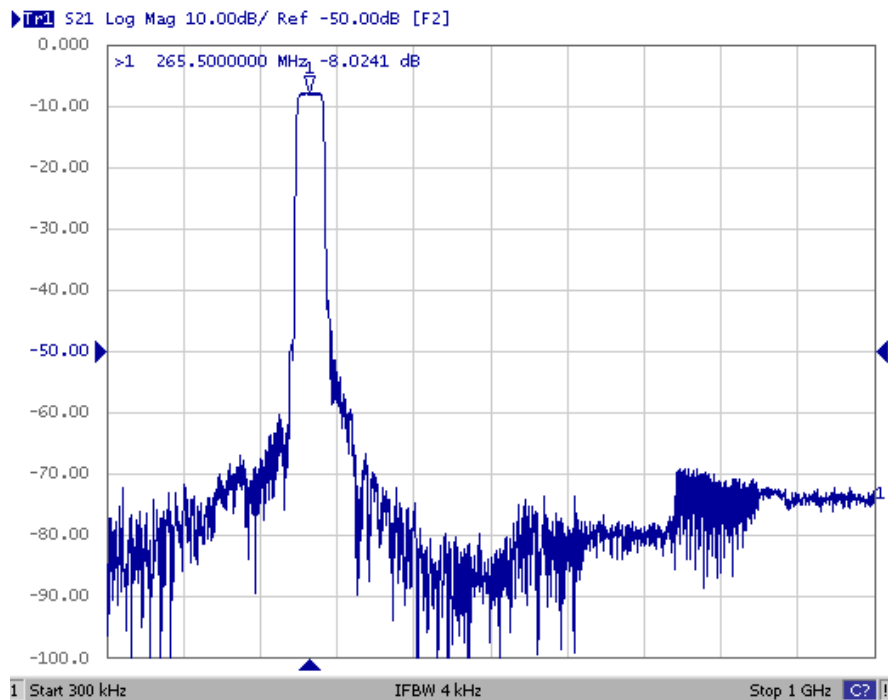
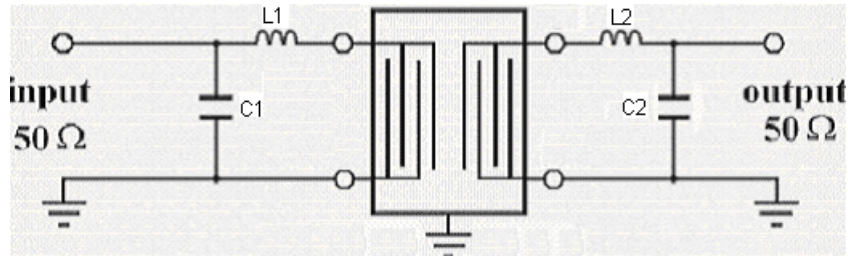


Fig. 4. Horizontal: 100MHz / Div, Vertical: 10dB / Div

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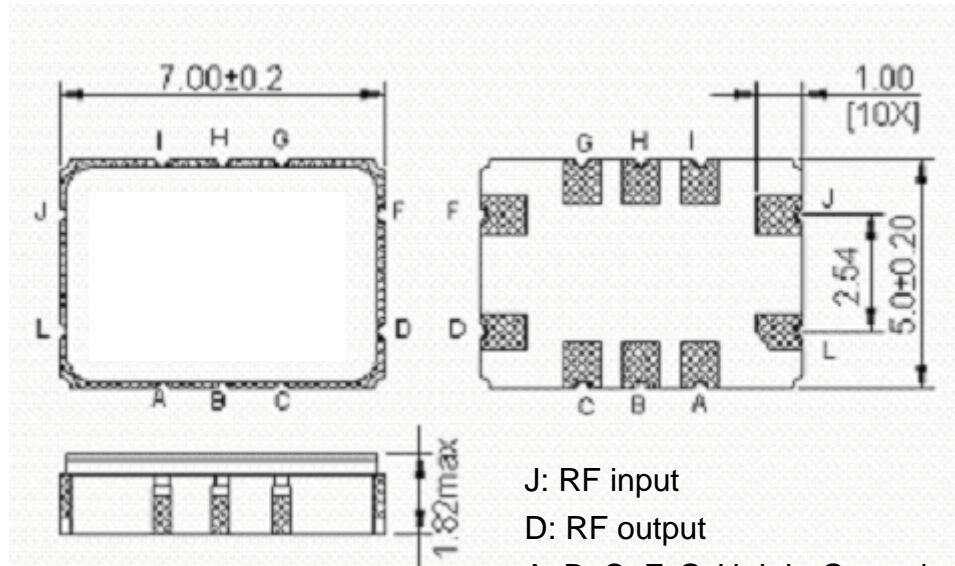
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D. MATCHING CIRCUIT:



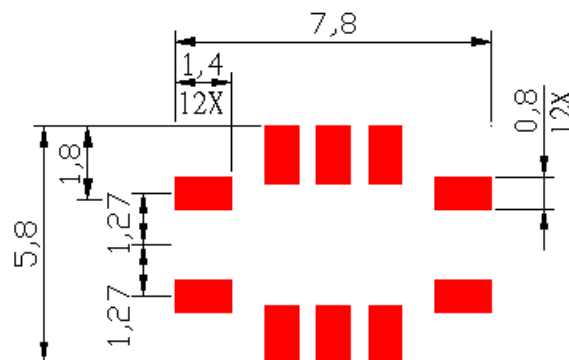
$$L1 = L2 = 47\text{nH} \quad C1 = C2 = 10\text{pF}$$

E. OUTLINE DRAWING:



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

F. PCB FOOTPRINT:

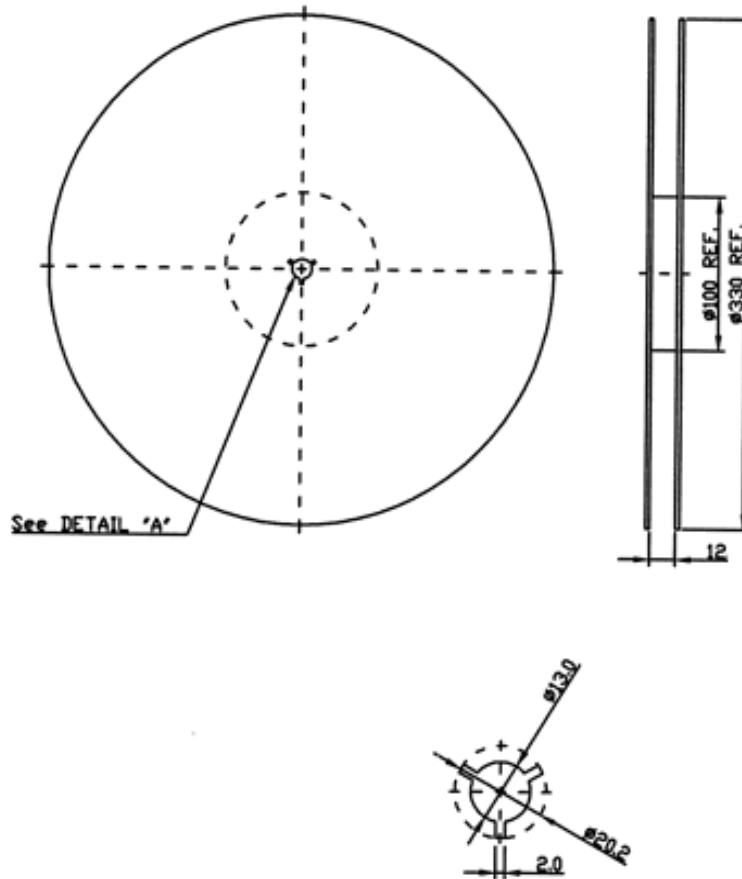


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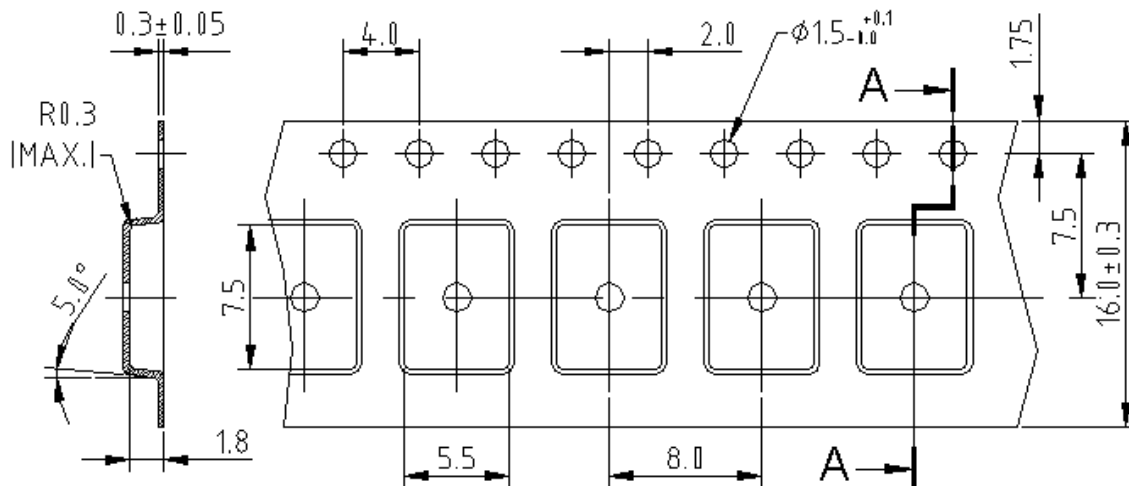
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

