

**SAW Filter 133.20MHz**  
**Part No: MP03442**

**Model: TB0816A**  
**Rev No: 1**

**A. MAXIMUM RATING:**

1. Operating Temperature: -40°C to 85°C
2. Storage Temperature: -40°C to 85°C
3. Input Power: 18dBm

**B. ELECTRICAL CHARACTERISTICS:**

Ambient Temperature: 25°C

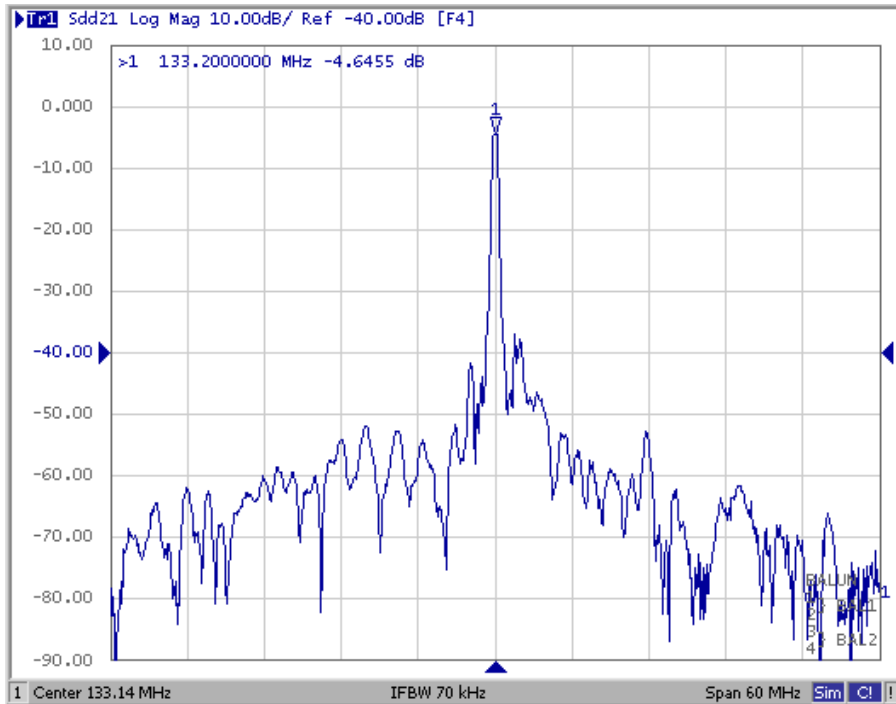
| Characteristics   | Value |        |      | Note |
|---|-------|--------|------|------|
|   | Min.  | Typ.   | Max. |      |
| Center frequency Fc MHz   | -     | 133.2  | -    |      |
| Temperature Coefficient ppm/°C                                  |       | -0.036 |      |      |
| Insertion Loss at Fc (including losses in matching circuit) MHz | -     | 4.5    | 8.0  |      |
| Amplitude ripple variation (Fc ± 100kHz) dB p-p                 | -     | 0.5    | 1.0  |      |
| Group Delay variation (Fc ± 100kHz) nsec                        | -     | 300    | 1000 |      |
| Relative Attenuation dB c                                       |       |        |      |      |
| Fc ± 250kHz ~ Fc ± 400kHz                                       | 3     | 5      | -    |      |
| Fc ± 400kHz ~ Fc ± 600kHz                                       | 15    | 16     | -    |      |
| Fc ± 600kHz ~ Fc ± 800kHz                                       | 20    | 28     | -    |      |
| Fc ± 800kHz ~ Fc ± 3.0MHz                                       | 29    | 31     | -    |      |
| Fc ± 3.0MHz ~ Fc ± 7.0MHz                                       | 35    | 42     | -    |      |
| Fc ± 7.0MHz ~ Fc ± 30.0MHz                                      | 40    | 47     | -    |      |
| Source Impedance (Single/Balanced) Ω                            | -     | 50/200 | -    |      |
| Load Impedance (Single/Balanced) Ω                              | -     | 50/200 | -    |      |

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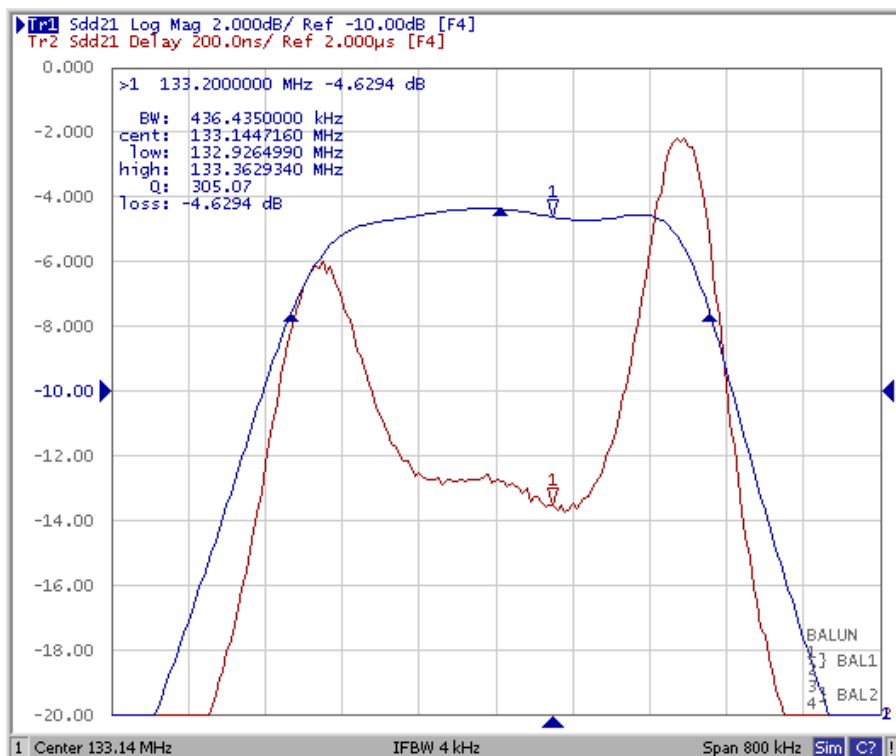
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**C. FREQUENCY CHARACTERISTICS:**

1. S21 Response: (span 60MHz)



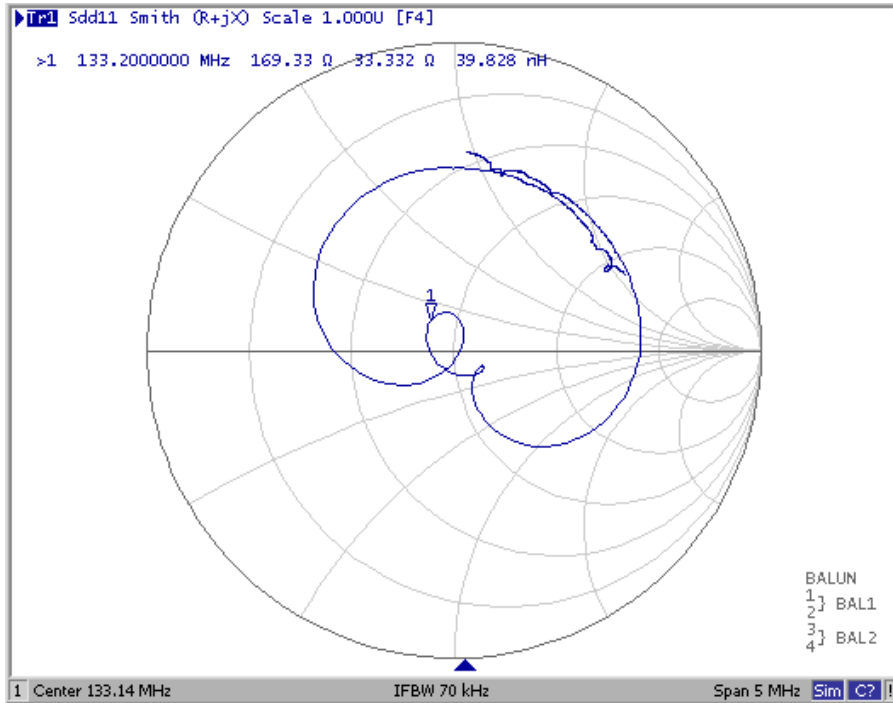
2. S21 Response: (span 0.8MHz)



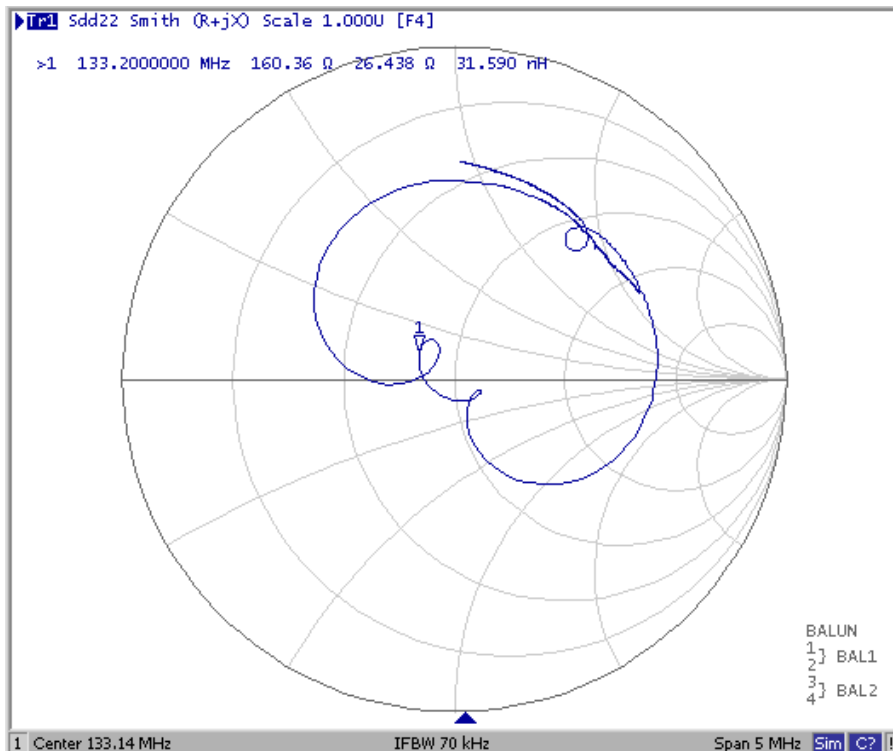
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3. S11 Smith-Chart: (span 5MHz)



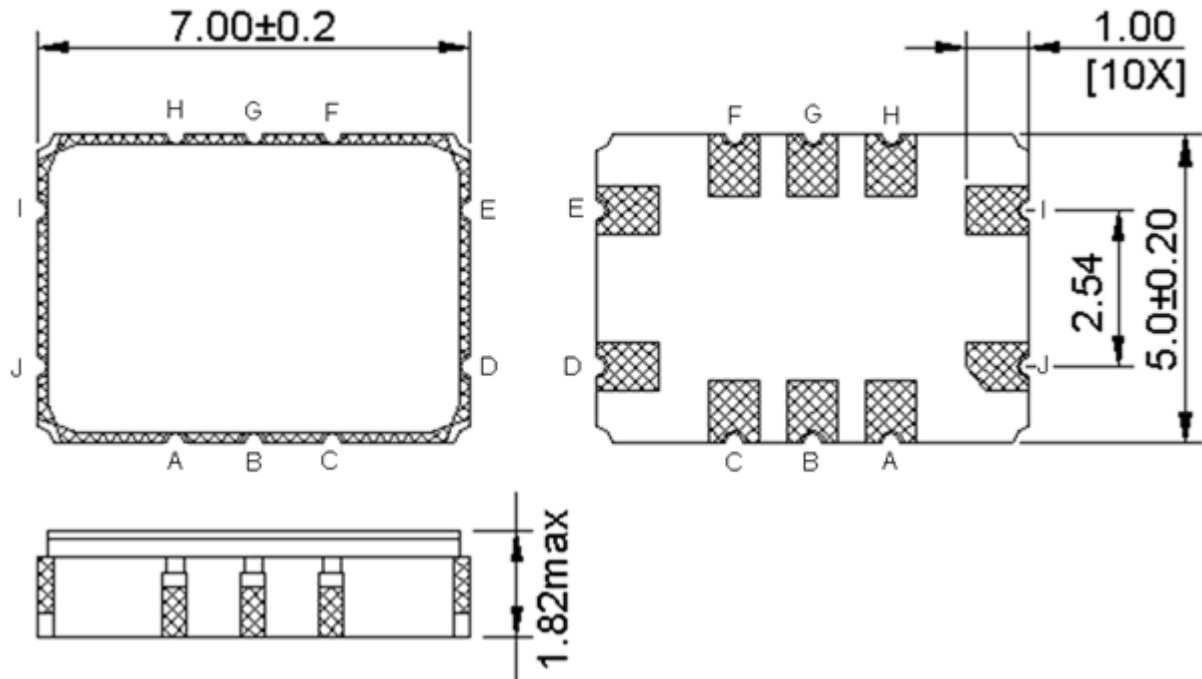
4. S22 Smith-Chart: (span 5MHz)



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**D. OUTLINE DRAWING:**

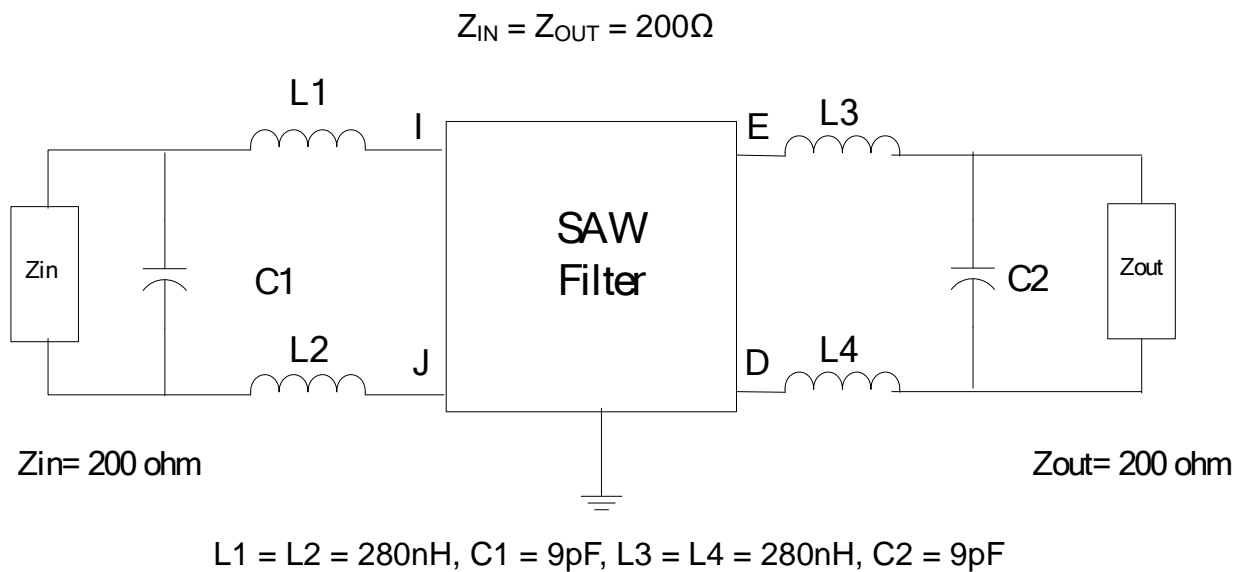
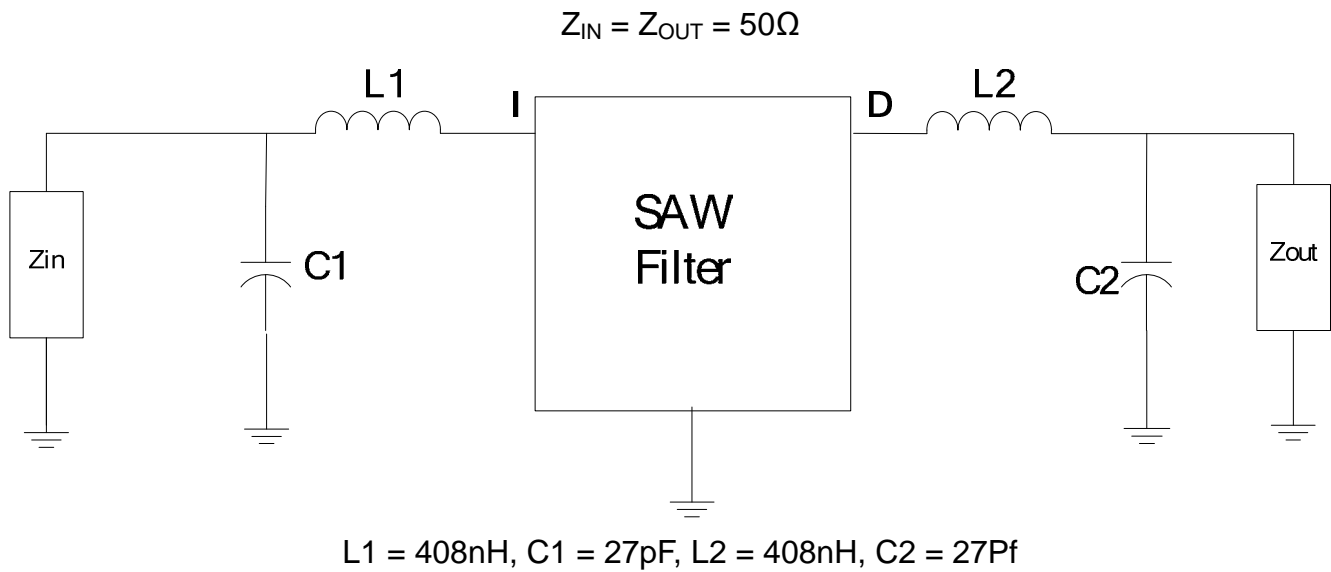


I: RF input or balanced input+  
J: Ground or balanced input-  
D: RF output or balanced output+  
E: Ground or balanced output-  
A, B, C, F, G, H: To be Ground  
Unit: mm

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**E. MATCHING CIRCUIT CONFIGURATION:**

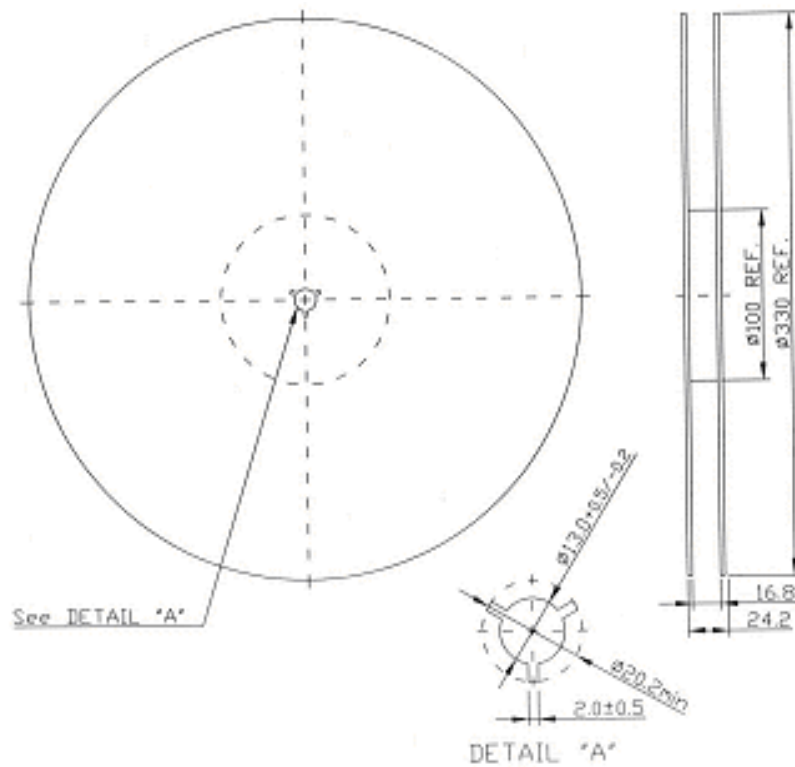


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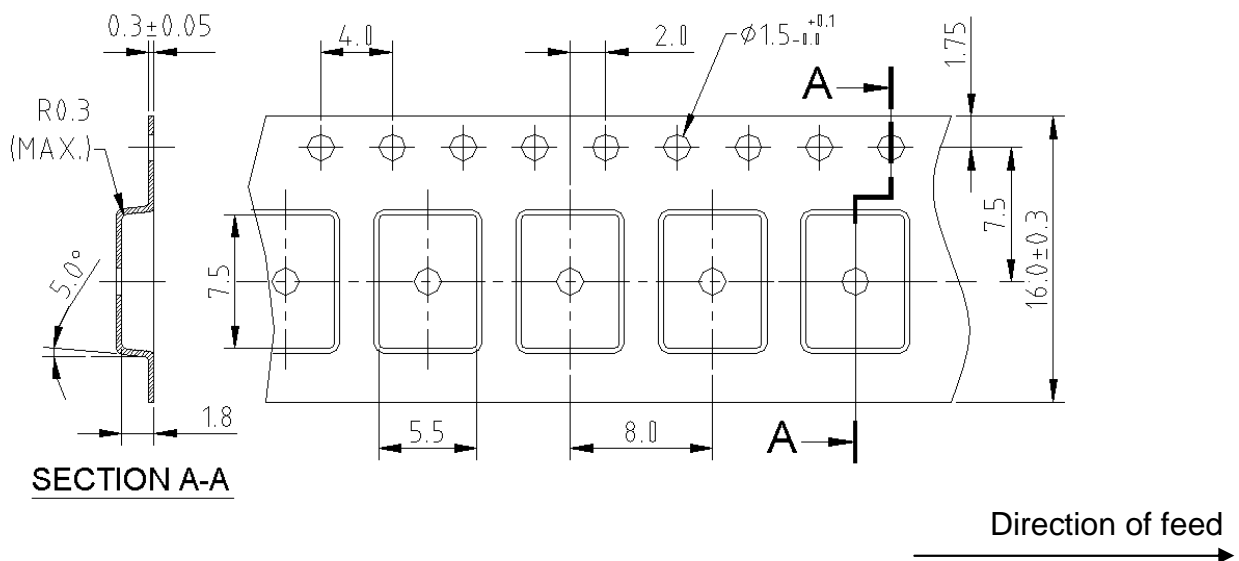
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**F. PACKING:**

**1. REEL DIMENSION**



**2. TAPE DIMENSION**



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**G. RECOMMENDED REFLOW PROFILE:**

