

**374.0MHz SAW Filter**  
**Part No: MA05971**

**Model: TB0210A**  
**REV NO.: 1**

**A. MAXIMUM RATING:**

1. Input Power Level: 10 dBm
2. Operating Temperature: -10°C to 85°C
3. Storage Temperature: -40°C to 85°C

**B. ELECTRICAL CHARACTERISTICS:**

| Item                                      | Unit | Min. | Type. | Max. | Note |
|---|------|------|-------|------|------|
| Center frequency, Fc                      | MHz  | -    | 374   | -    |      |
| Insertion Loss, IL                        | dB   | -    | 9     | 10   |      |
| Passband width, BW3                       | MHz  | 17   | 23.4  | -    |      |
| Amplitude Ripple in Fc±7MHz               | dB   | -    | 0.7   | 1    |      |
| Group delay ripple in Fc±7MHz             | nS   | -    | 50    | 100  |      |
| Triple transit suppression                | dB   | 30   | 38    | -    |      |
| Attenuation:(Reference level from Min IL) |      |      |       |      |      |
| 274MHz to 330 MHz                         | dB   | 40   | 48    | -    |      |
| 330MHz to 349.5MHz                        | dB   | 40   | 47    | -    |      |
| 349.5MHz to 355 MHz                       | dB   | 30   | 38    | -    |      |
| 393MHz to 398.5MHz                        | dB   | 30   | 44    | -    |      |
| 398.5MHz to 422MHz                        | dB   | 35   | 45    | -    |      |
| 422MHz to 474MHz                          | dB   | 40   | 49    | -    |      |

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**C. FREQUENCY CHARACTERISTICS:**

(1) Wide band of Response:

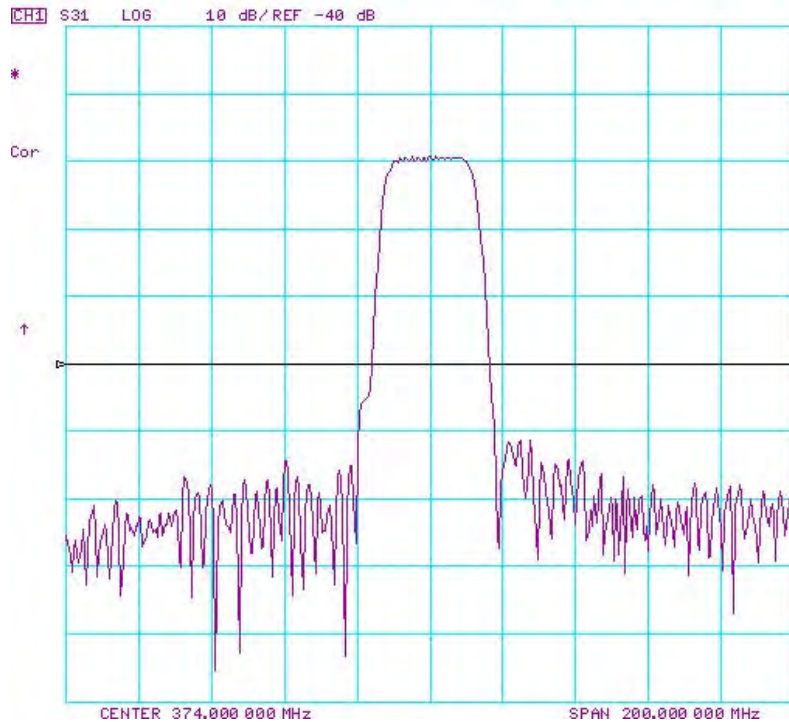


Fig-1 S21 Response Horizontal: 20MHz/Div. Vertical: 10dB/div REF. : -40dB

(2) Passband of Response:



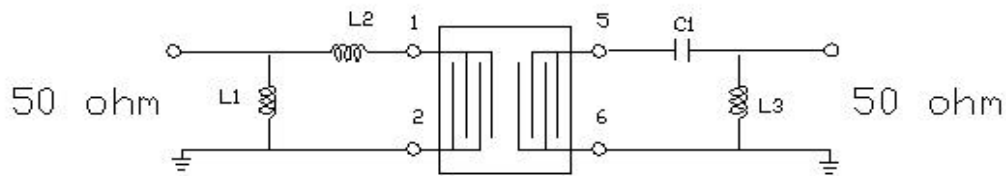
Fig-1 S21 Response Horizontal: 3MHz/Div Vertical: 5dB/Div, 100nS

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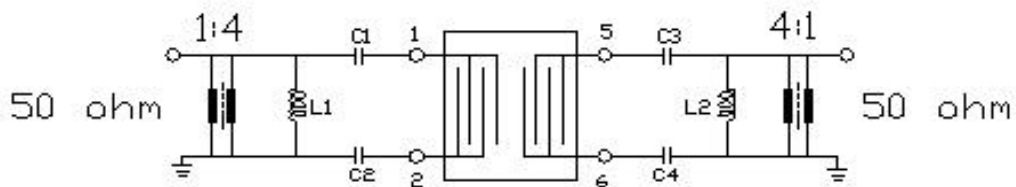
**D.MEASUREMENT CIRCUIT:**

(1) 50 ohm unbalanced:



$L1=8\text{nH}$   $L2=27\text{nH}$   $L3=39\text{nH}$   $C1=18\text{pF}$

(2) 200 ohm balanced:

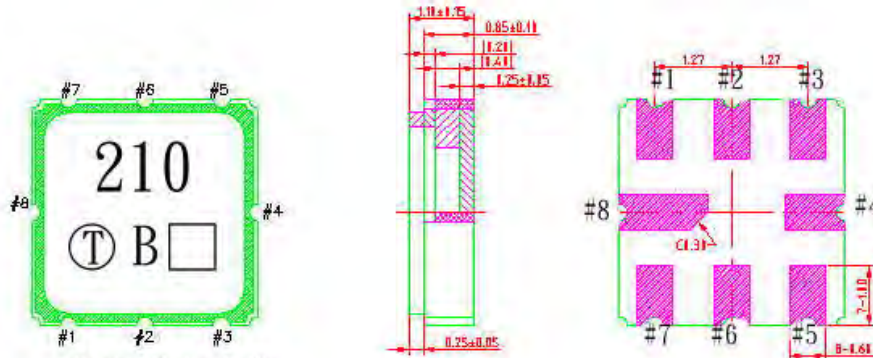


$L1=27\text{nH}$   $C1=C2=15\text{pF}$   $C3=C4=18\text{pF}$   $L2=33\text{nH}$

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**E. OUTLINE DRAWING:**



Pin5: Output RF  
 Pin1: Input RF  
 Pin6: Output Ground or Balance output  
 Pin2: Input Ground or Balance input  
 pin3, 4, 7, 8: To be Ground

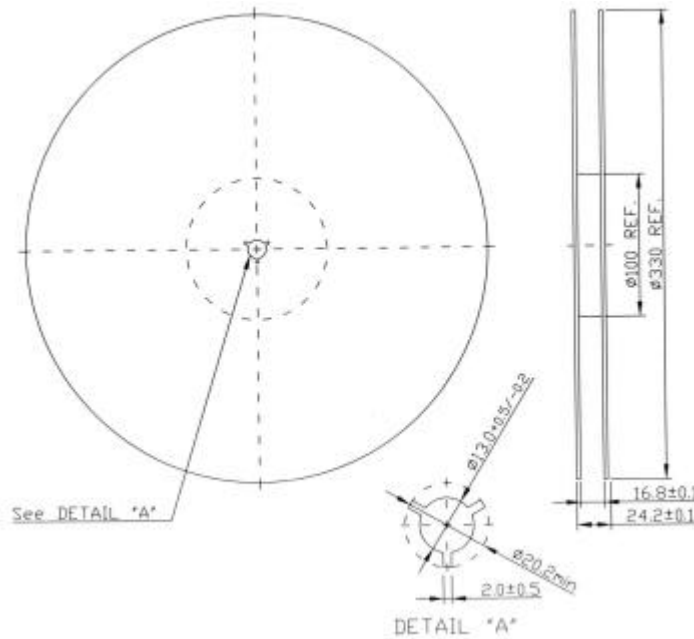
? : Date code  
 Unit: mm

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**F. PACKING:**

1. REEL DIMENSION



2. TAPE DIMENSION

