

SAW Filter 183.60MHz

Model: TB0187A

Part No: MA07665

REV. NO.: 2

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. Operating Temperature: -30°C to 85°C

B. ELECTRICAL CHARACTERISTICS:

| Characteristics | Value | | |
|-------------------------------------------------------------------------|-------|-------|------|
| | Min. | Typ. | Max. |
| Center frequency F_c MHz | - | 183.6 | - |
| Minimum insertion loss at F_c dB | - | 9.5 | 10.5 |
| 5dB Bandwidth | 1.26 | 1.46 | |
| 33dB Bandwidth | - | 1.73 | 1.8 |
| Ripple ($F_c-0.3\text{MHz} \dots F_c+0.3\text{MHz}$) dB | - | 0.6 | 1.2 |
| Phase linearity ($F_c-0.63\text{MHz} \dots F_c+0.63\text{MHz}$) (rms) | | 1.7 | 2.5 |
| Attenuation: | | | |
| 1) $F_c \pm 0.9$ MHz dB | 28 | 31 | - |
| 2) $F_c \pm 1.25$ MHz dB | 33 | 36 | - |
| 3) $F_c \pm 1.7$ MHz dB | 30 | 33 | - |
| 4) $F_c \pm 2.05$ MHz dB | 33 | 37 | - |
| 5) 10~168 MHz dB | 50 | 58 | - |
| 6) 168.6~174.6 MHz dB | 40 | 48 | - |
| 7) 174.6~182.7 MHz dB | 28 | 31 | - |
| 8) 184.5~192.6 MHz dB | 30 | 33 | - |
| 9) 192.6~198.6 MHz dB | 40 | 48 | |
| 10) 198.6~283.6 MHz dB | 50 | 57 | |

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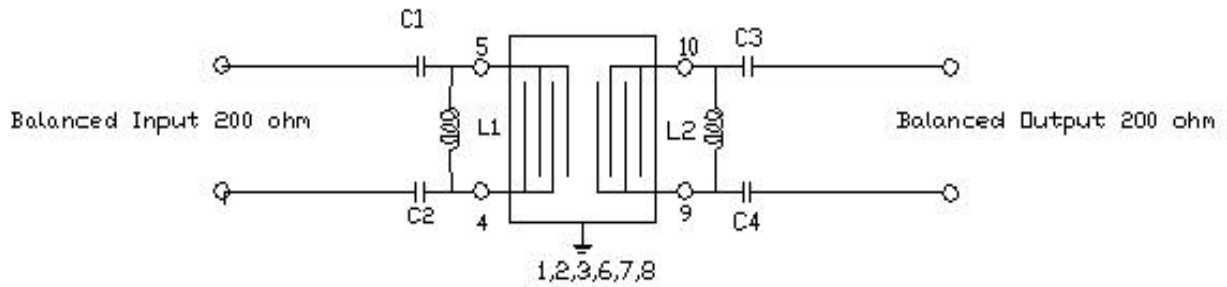
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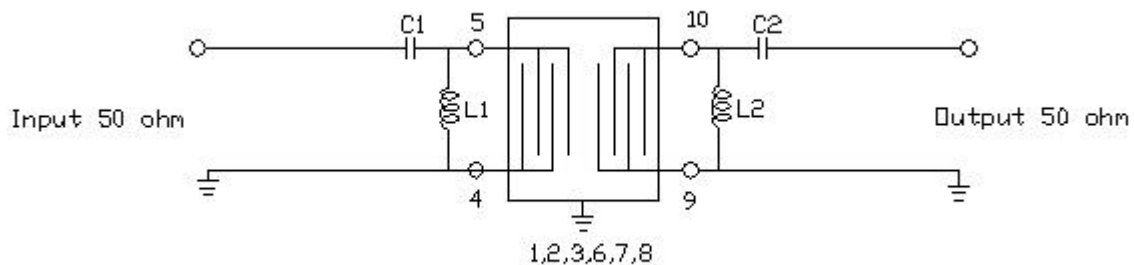
C. MEASUREMENT CIRCUIT:

1) For 200 ohm balanced Input and Output



C1=C2=7pF L1=44nH
C3=C4=5.6pF L2=78nH

2) For 50 ohm Input and Output



L1=33nH C1=7pF L2=56nH C2=4pF

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D.FREQUENCY CHARACTERISTICS:

(1) wide band of Response:



Fig-1 S21 Response Horizontal: 0.5MHz/Div Vertical: 10dB/Div. Reference: -30dB

(2) Passband of Response:

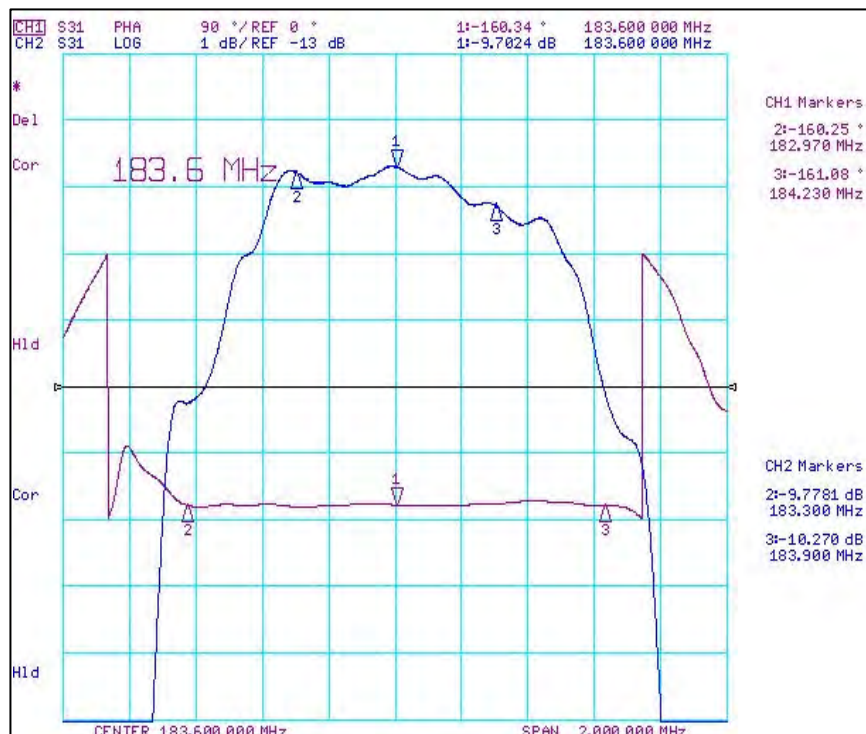


Fig-2 Phase linearity and Ripple, Horizontal:0.2MHz/Div. Vertical: 1 dB/Div Vertical: 90 degree/Div

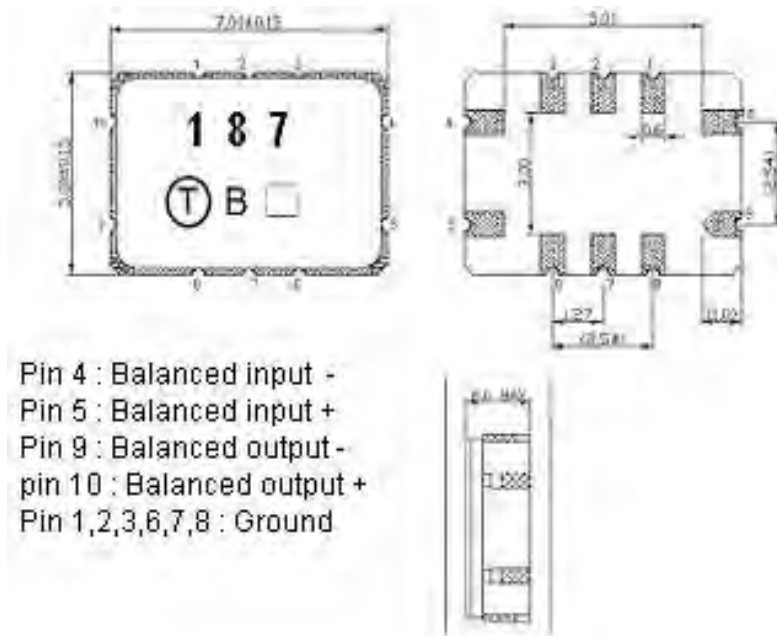
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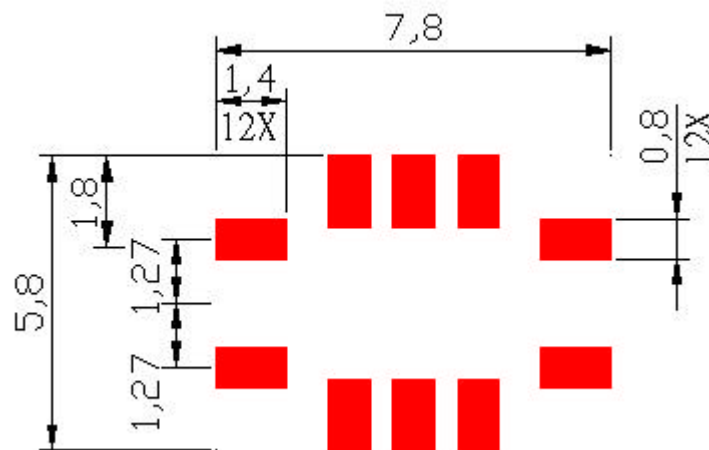
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E. OUTLINE DRAWING:



Pin 4 : Balanced input -
 Pin 5 : Balanced input +
 Pin 9 : Balanced output -
 pin 10 : Balanced output +
 Pin 1,2,3,6,7,8 : Ground

F. PCB FOOTPRINT:

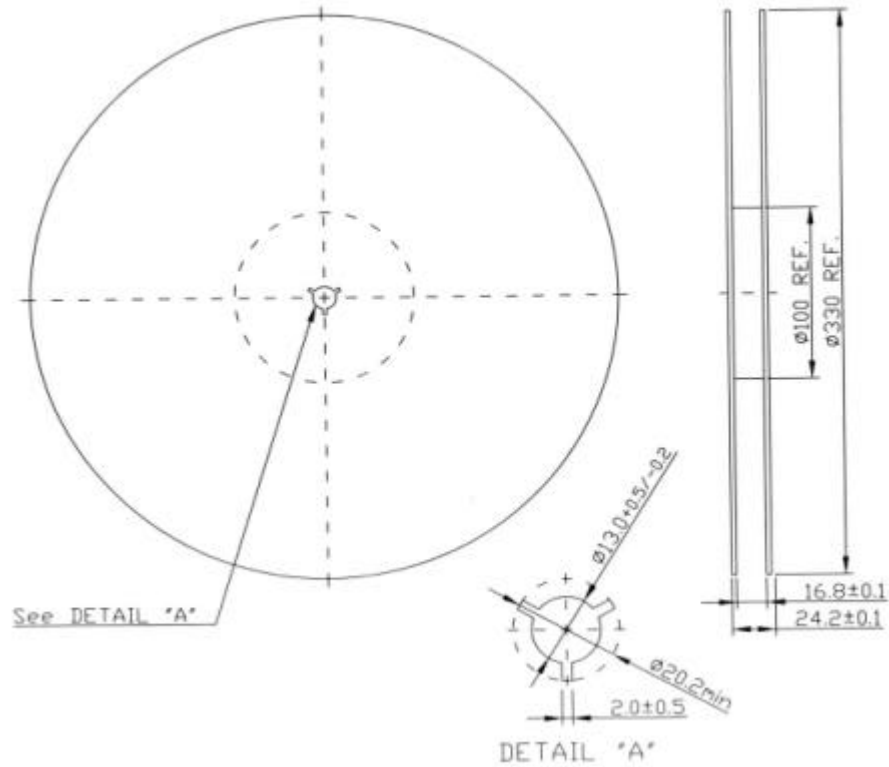


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G. PACKING:

1. REEL DIMENSION



TAPE DIMENSION

