

**SAW Resonator 300MHz**

**Model: TC0267A**

**Part No: MA07654**

**REV. NO.: 1**

**A. FEATURES:**

1. 1-Port Resonator.

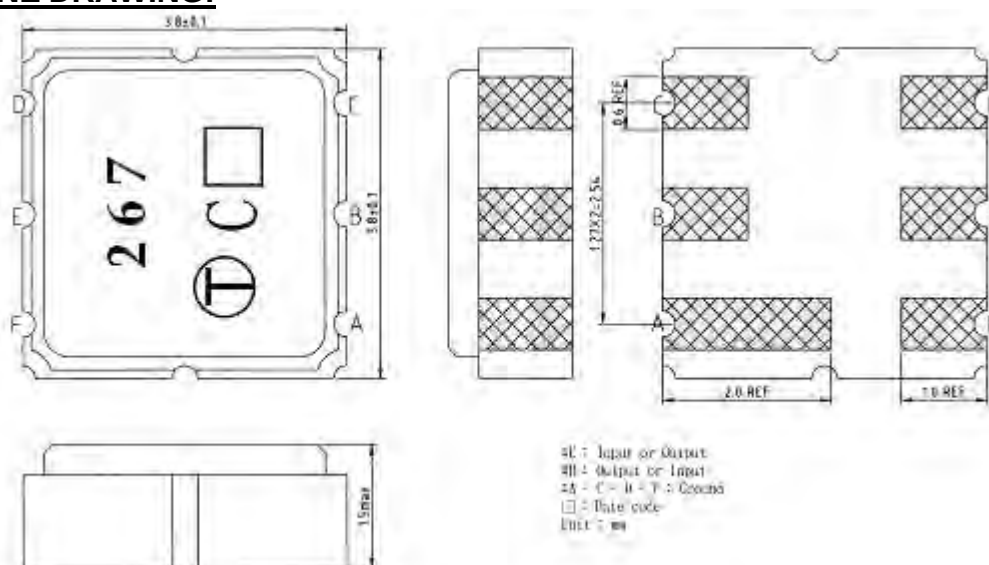
**B. MAXIMUM RATING:**

1. Input Power Level: 0 dBm
2. DC voltage: 12 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

**C. ELECTRICAL CHARACTERISTICS:**

| Characteristic          | Units               | Minimum           | Typical | Maximum |
|-------------------------|---------------------|-------------------|---------|---------|
| Center frequency Fr     | MHz                 | 299.925           | 300     | 300.075 |
| Insertion Loss IL       | dB                  | -                 | 1.7     | 2.5     |
| Equivalent Elements     |                     |                   |         |         |
| Motional capacitance C1 | fF                  | -                 | 3.46    | -       |
| Motional inductance L1  | μH                  | -                 | 81.136  | -       |
| Motional resistance R1  | Ohm                 | -                 | 18.89   | -       |
| Parallel capacitance Co | pF                  | -                 | 5.08    | -       |
| Temp.coeff.             | ppm/°C <sup>2</sup> | -                 | 0.032   | -       |
| Turnover To             | deg.C               | 10                | 25      | 40      |
| Package size            |                     | SMD 3.8X3.8X1.2mm |         |         |

**D. OUTLINE DRAWING:**



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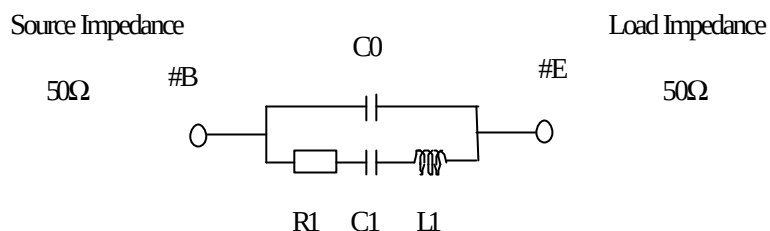
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**E. EQUIVALENT CIRCUIT:**

One-Port Resonator:



**F. FREQUENCY CHARACTERISTICS:**



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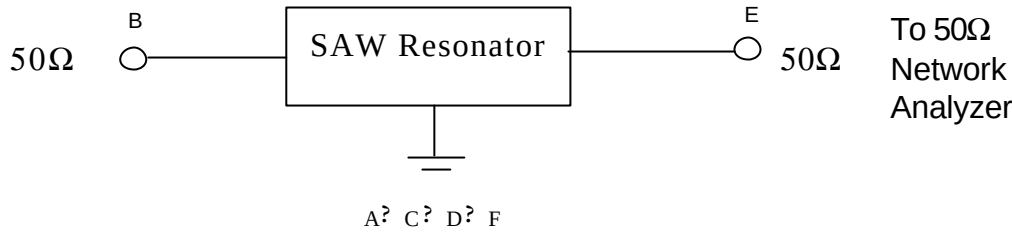
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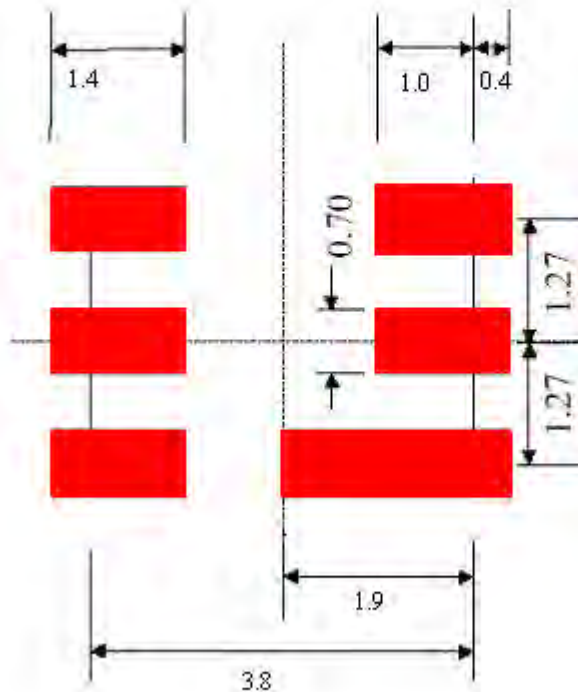
**G. TEST CIRCUIT:**

Network analyzer

From 50Ω  
 Network  
 Analyzer



**H. PCB FOOTPRINT**



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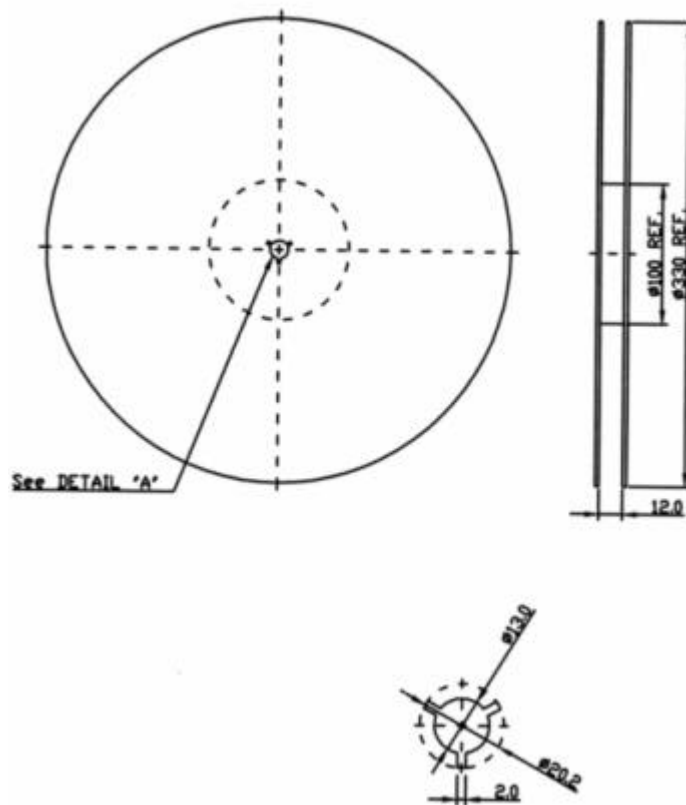
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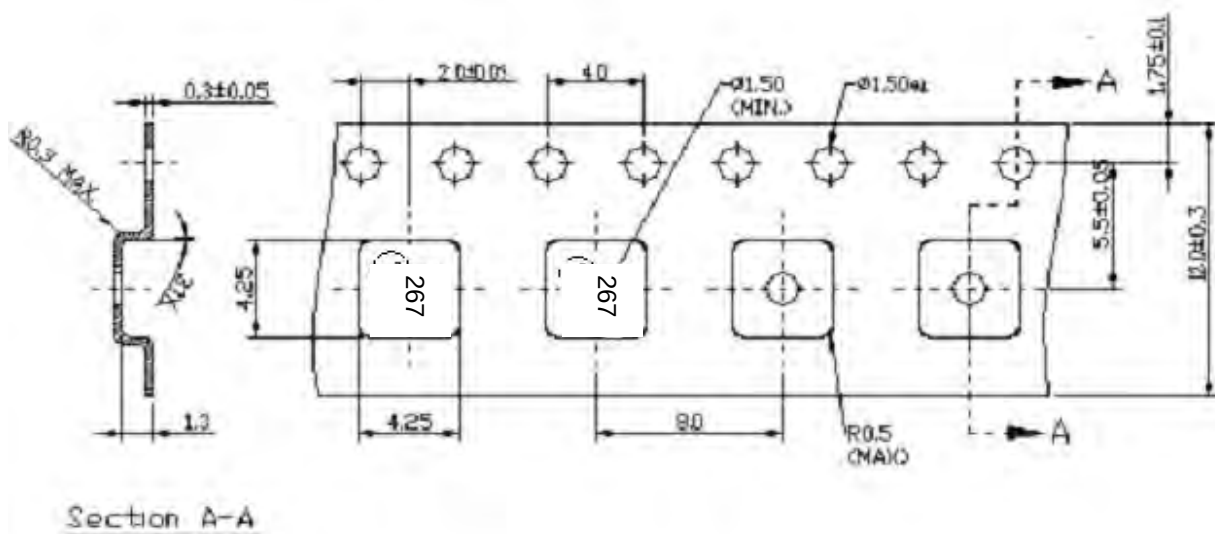
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**I. PACKING:**

**1. REEL DIMENSION**



**2. TAPE DIMENSION**



Direction of feed