

800.0MHz SAW Resonator

Model: TC0314A

Part No: MA09356

REV NO.: 1

A. FEATURES:

- 1-Port Resonator.

B. MAXIMUM RATING:

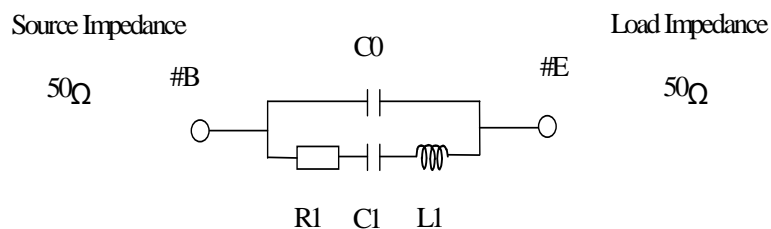
1. Input Power Level: 0 dBm
2. DC voltage: 12 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

C. ELECTRICAL CHARACTERISTICS:

| Characteristic | Units | Minimum | Typical | Maximum |
|--------------------------------|----------------|-------------------|---------|---------|
| Center frequency Fr | MHz | 799.925 | 800 | 800.075 |
| Insertion Loss IL | dB | | 1.3 | 2.3 |
| Unloaded Quality factor | | - | 8700 | - |
| Equivalent Elements | | | | |
| Motional capacitance C1 | fF | - | 1.46 | - |
| Motional inductance L1 | μH | - | 26.9 | - |
| Motional resistance R1 | Ohm | - | 15.47 | - |
| Parallel capacitance Co | pF | - | 2.59 | - |
| Temp.coeff. | ppm/c*2 | - | 0.032 | - |
| Turnover To | deg.C | - | 25 | - |
| Package size | | SMD 3.8X3.8X1.4mm | | |

D. EQUIVALENT CIRCUIT:

One-Port Resonator:



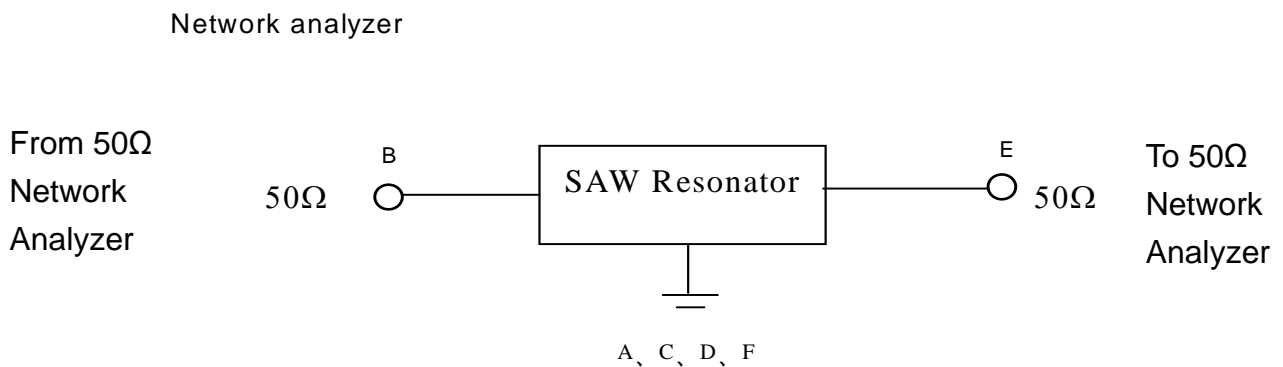
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E. FREQUENCY CHARACTERISTICS:



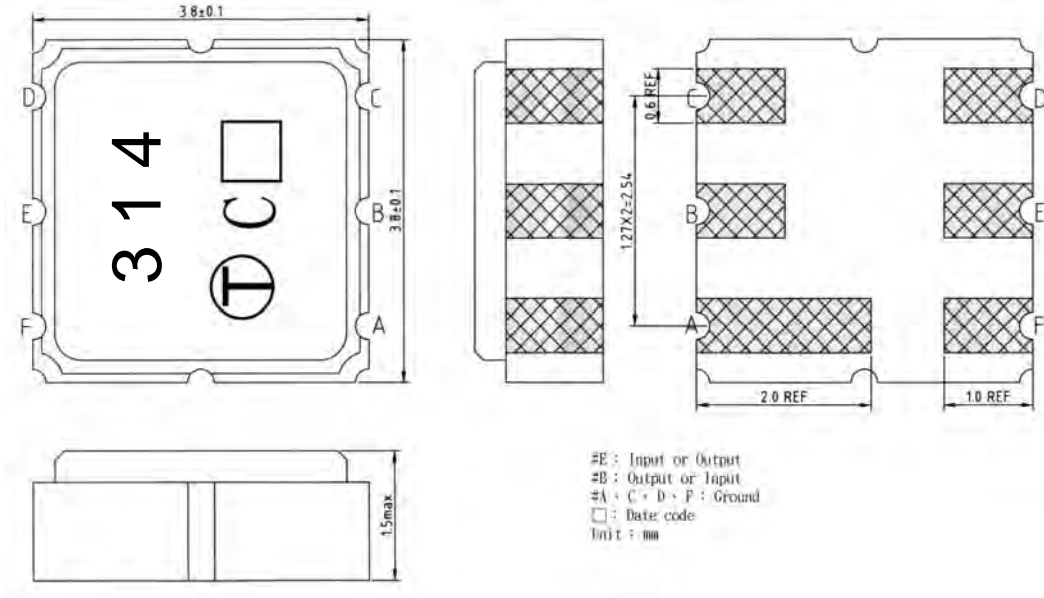
F. TEST CIRCUIT:



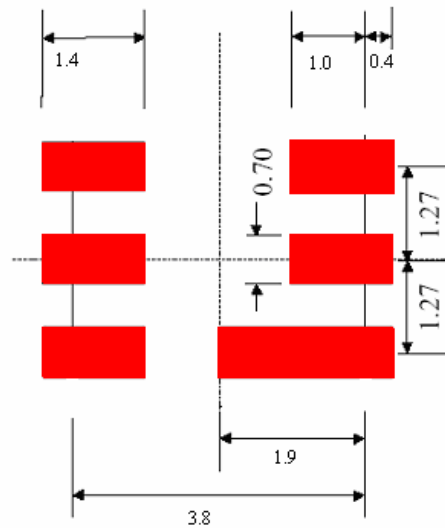
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G. OUTLINE DRAWING:



H. PCB FOOTPRINT:

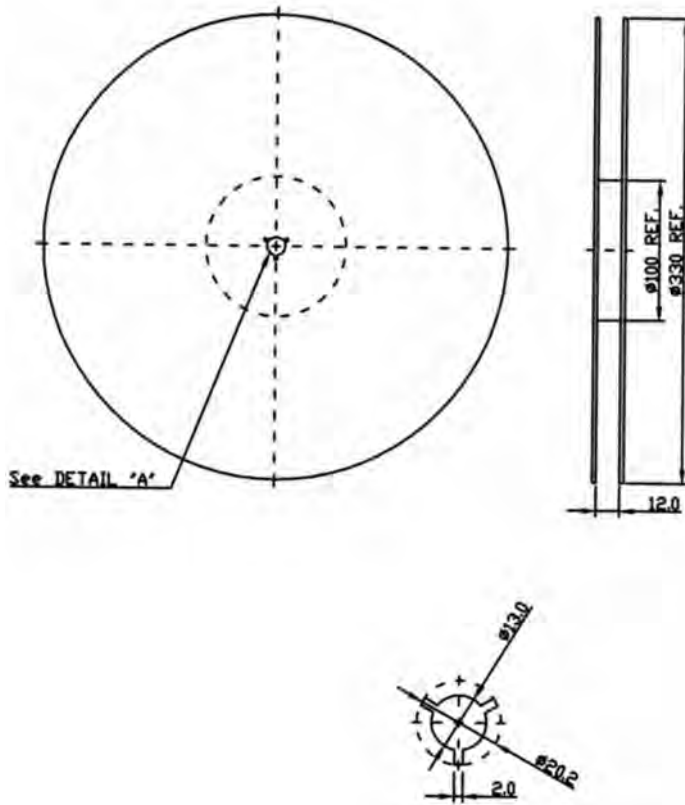


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I. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

