

SAW Resonator 462.5375MHz

Model: TC0283A

Part No: MP01569

REV. NO.:1

A. FEATURES:

- 1-Port Resonator.

B. MAXIMUM RATING:

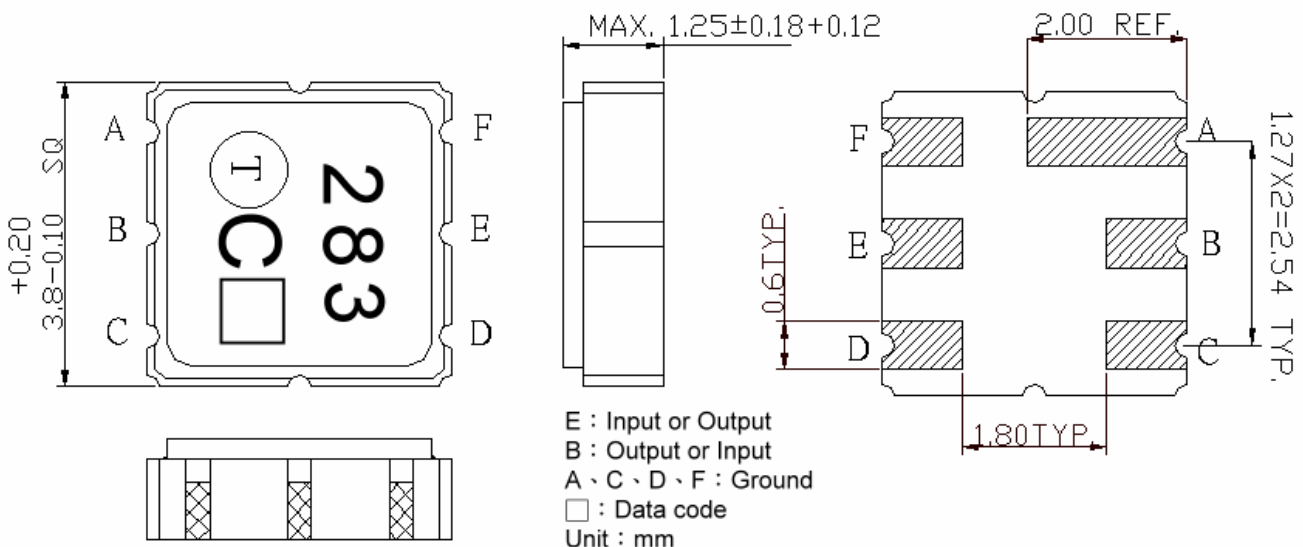
1. Input Power Level: 0 dBm
2. DC voltage: 12 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

C. ELECTRICAL CHARACTERISTICS:

| Characteristic | Units | Minimum | Typical | Maximum |
|-------------------------|---------|-------------------|----------|----------|
| Center frequency Fr | MHz | 462.4375 | 462.5375 | 462.6375 |
| Insertion Loss IL | dB | - | 1.61 | 2.5 |
| Equivalent Elements | | | | |
| Motional capacitance C1 | fF | - | 1.21 | - |
| Motional inductance L1 | μH | - | 97.72 | - |
| Motional resistance R1 | Ohm | - | 24.2 | - |
| Parallel capacitance Co | pF | - | 2.45 | - |
| Temp.coeff. | ppm/c*2 | - | 0.032 | - |
| Turnover To | deg.C | 10 | | 40 |
| Package size | | SMD3.8X3.8X1.4 mm | | |

Temperature dependence of fc: $fc(T_A) = fc(T_O)(1 + TC_f(T_A - T_O)^2)$

D. OUTLINE DRAWING:

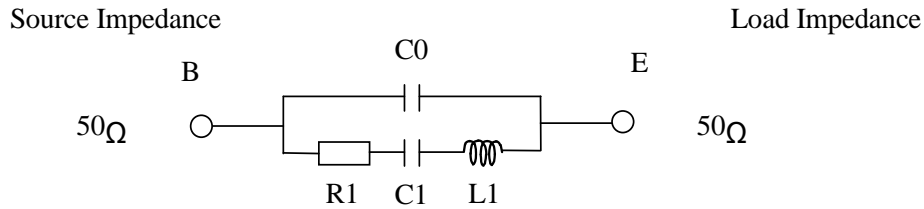


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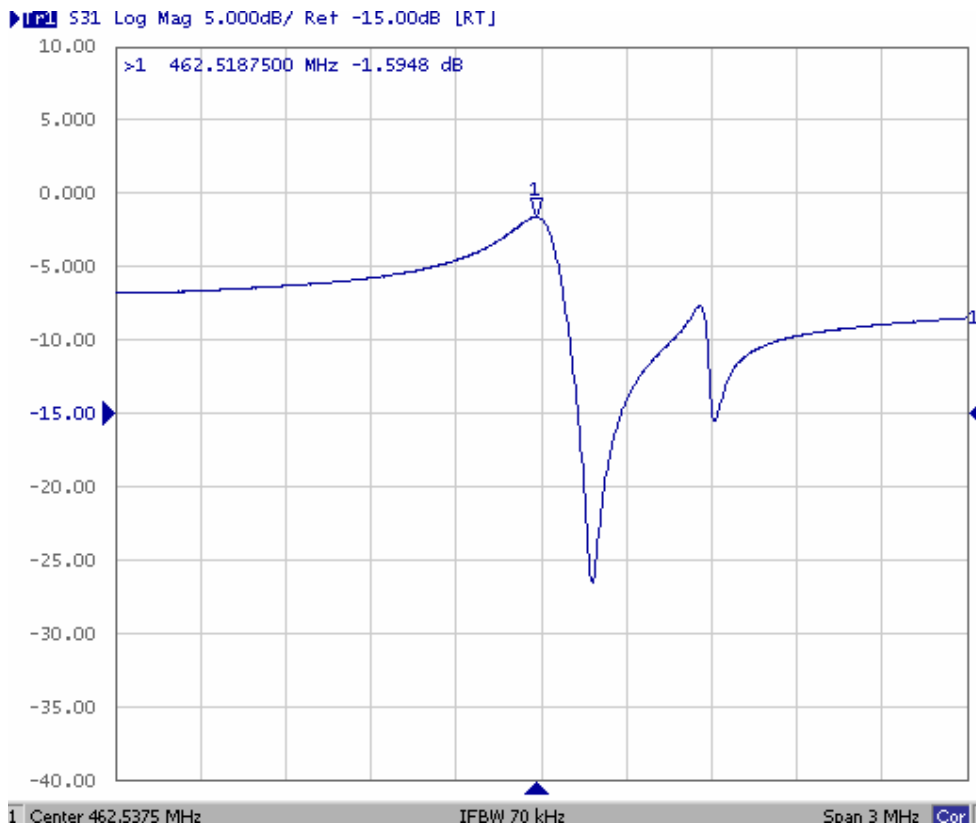
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E. EQUIVALENT CIRCUIT:

One-Port Resonator:



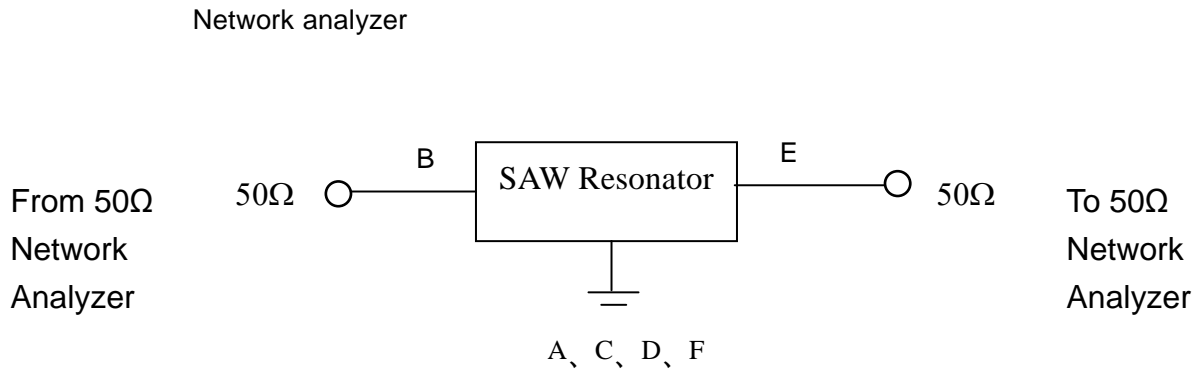
F. FREQUENCY CHARACTERISTICS:



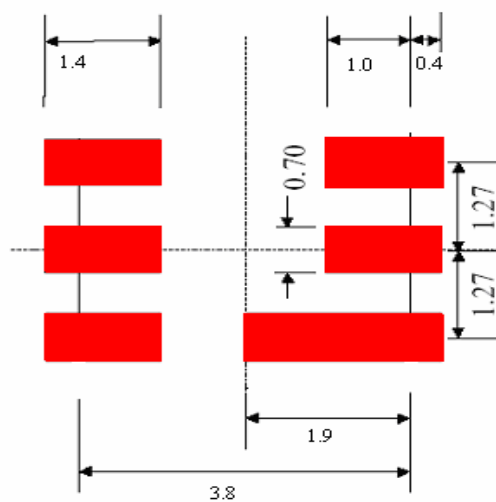
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G. TEST CIRCUIT:



H. PCB FOOTPRINT:

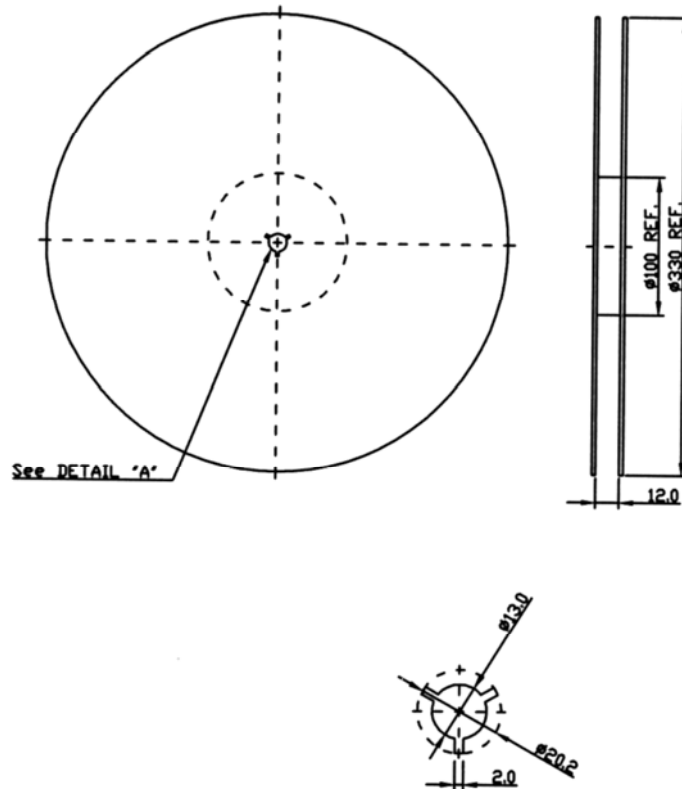


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I. PACKING:

1. REEL DIMENSION



2.TAPE DIMENSION

