

433.920 MHz SAW Resonator
Part No: MA05774

Model: TC0219A
REV NO.: 4

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

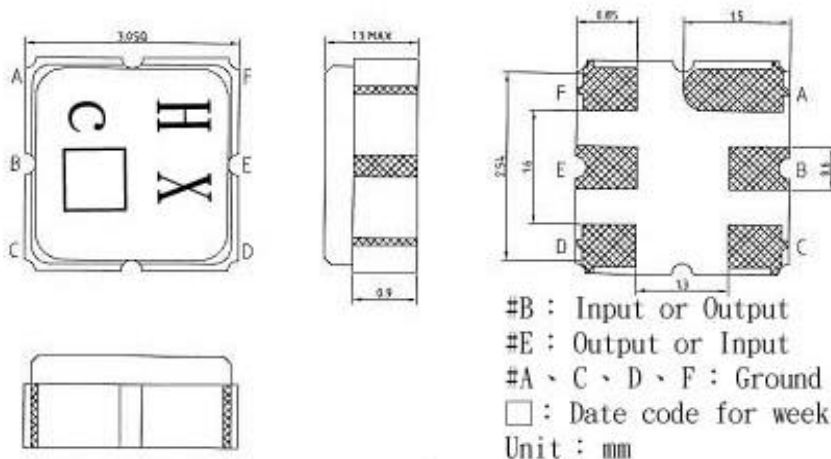
C. ELECTRICAL CHARACTERISTICS:

Reference Temperature $T_A=25^\circ\text{C}$

| Characteristic | Units | Minimum | Typical | Maximum |
|---|----------------|----------------|---------|---------|
| Center frequency F_c | MHz | 433.845 | 433.920 | 433.995 |
| Insertion Loss IL | dB | - | 1.58 | 2.2 |
| Unload quality factor Q_U | | 6000 | 11000 | - |
| Ageing of f_c | ppm/yr | - | - | 10 |
| Motional capacitance C1 | fF | - | 1.5 | - |
| Motional inductance L1 | μH | - | 89.79 | - |
| Motional resistance R1 | Ohm | - | 22.25 | - |
| Parallel capacitance C_o | pF | - | 2.95 | - |
| Frequency Temperature coefficient (TC_f) | ppm/c*2 | - | 0.032 | - |
| Turnover To | deg.C | 10 | 25 | 40 |
| Package size | | SMD 3X3X1.1 mm | | |

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

D. OUTLINE DRAWING:

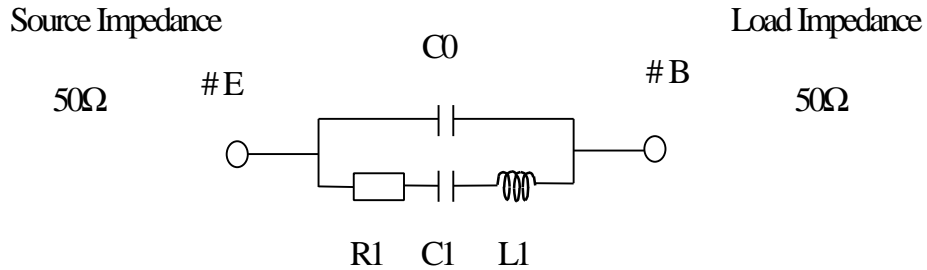


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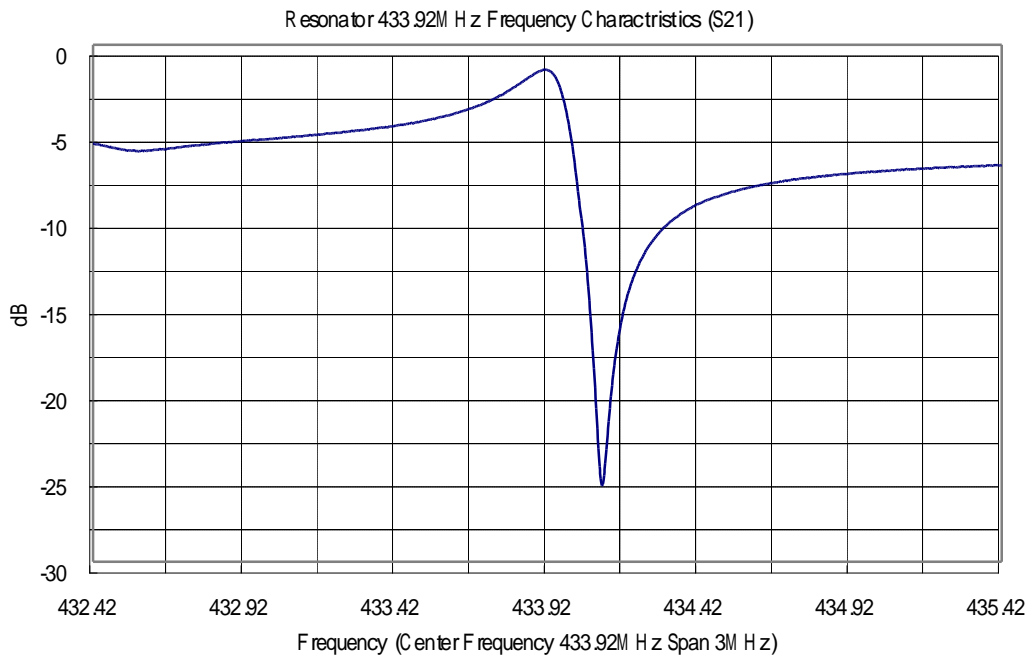
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E. EQUIVALENT CIRCUIT:

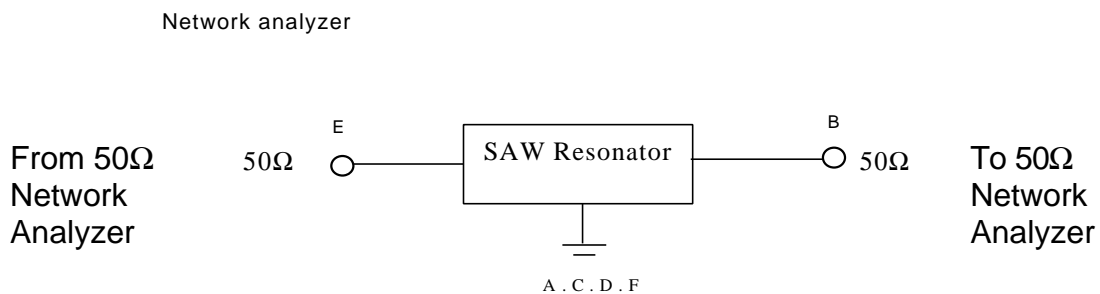
One-Port Resonator:



F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

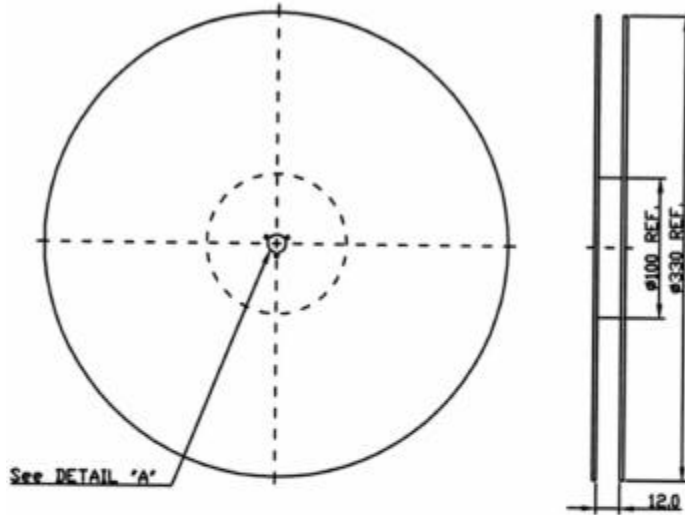


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H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

