

**772.420 MHz SAW Resonator**  
**Part No: MA05390**

**Model: TC0187A**  
**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

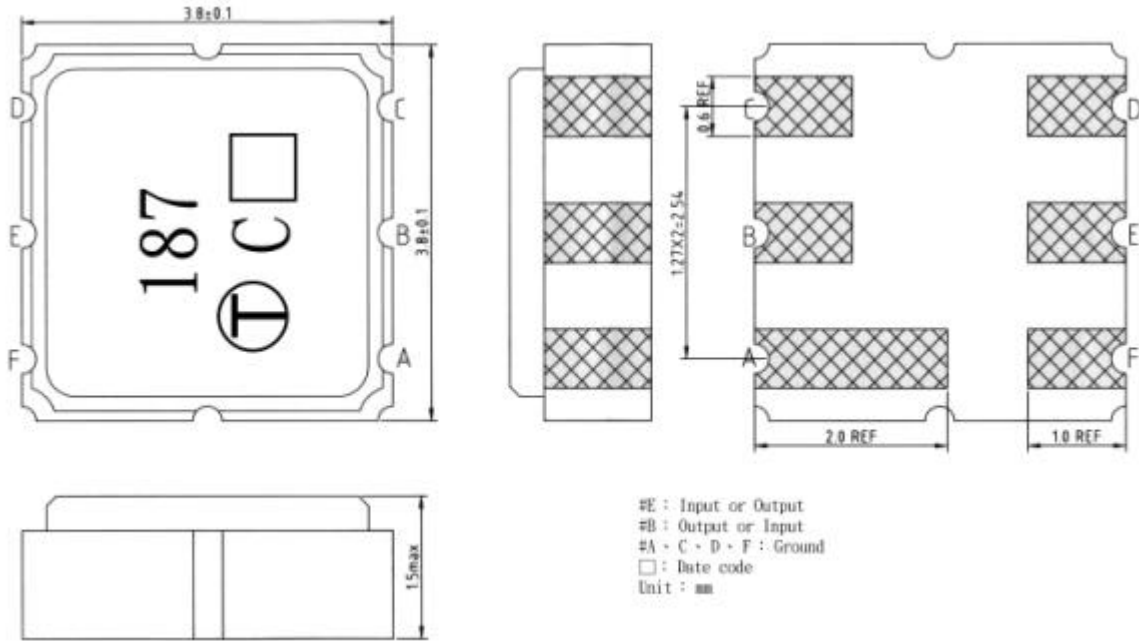
**C. ELECTRICAL CHARACTERISTICS:**

Characteristic	Units	Minimum	Typical	Maximum
Center frequency <b>Fr</b>	<b>MHz</b>	772.295	772.420	772.545
Insertion Loss <b>IL</b>	<b>dB</b>	-	1.0	2.0
Equivalent Elements				
Motional capacitance <b>C1</b>	<b>fF</b>	-	1.69	-
Motional inductance <b>L1</b>	<b>H</b>	-	25.15	-
Motional resistance <b>R1</b>	<b>Ohm</b>	-	14.55	-
Parallel capacitance <b>Co</b>	<b>pF</b>	-	2.81	-
Temp.coeff.	<b>ppm/c*2</b>	-	0.032	-
Turnover <b>To</b>	<b>deg.C</b>	20	-	50
Package size		SMD 3.8X3.8X1.4mm		

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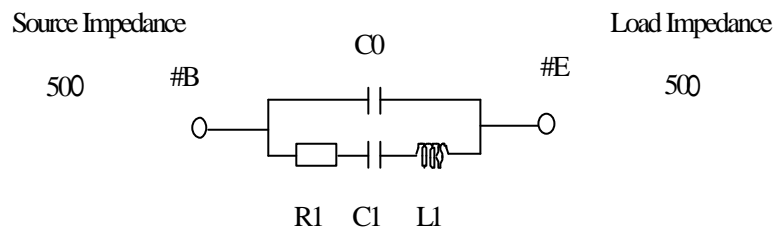
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**D. OUTLINE DRAWING:**



**E. EQUIVALENT CIRCUIT:**

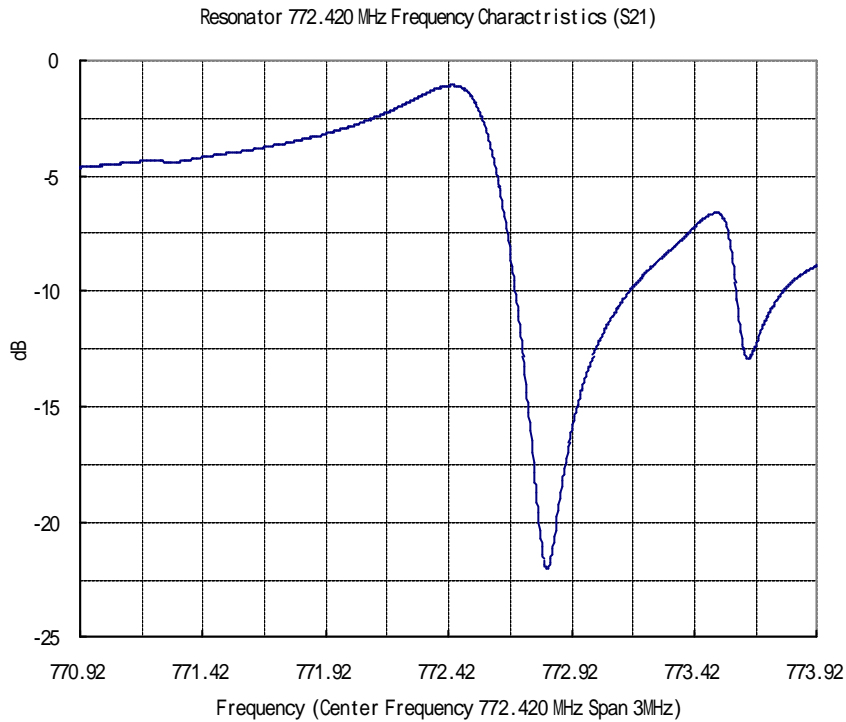
One-Port Resonator:



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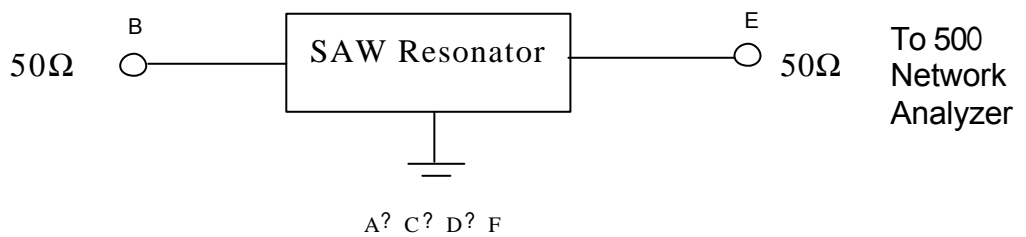
**F. FREQUENCY CHARACTERISTICS:**



**G. TEST CIRCUIT:**

Network analyzer

From 500  
Network  
Analyzer

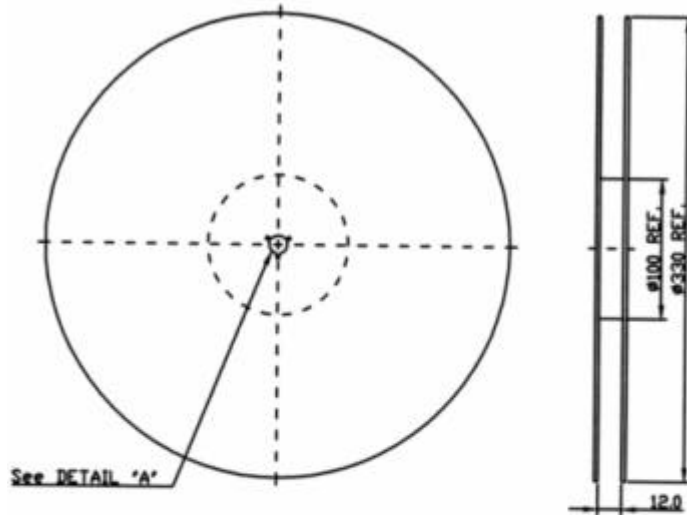


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**H. PACKING:**

**1. REEL DIMENSION**



**2. TAPE DIMENSION**

