

**SAW Resonator 433.920MHz**  
**Part No: MA06434**

**Model: TC0158A**  
**REV. NO.: 1**

**A. FEATURES:**

1. 1-Port Resonator.

**B. MAXIMUM RATING:**

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

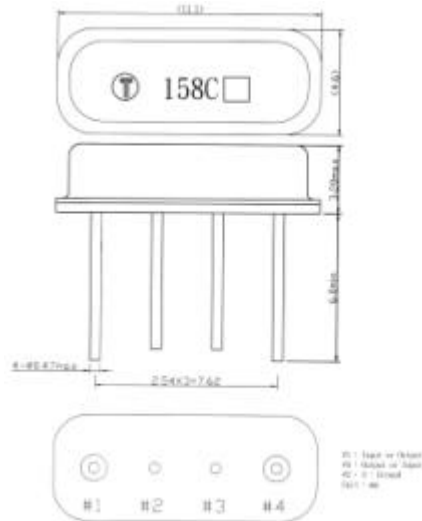
**C. ELECTRICAL CHARACTERISTICS:**

Characteristic	Units	Minimum	Typical	Maximum
Center frequency $F_r$	MHz	433.845	433.92	433.995
Insertion Loss $IL$	dB	-	1.2	2.0
Unloaded Quality factor		-	12800	-
Ageing of $F_c$	ppm	-	-	10/year
Equivalent Elements				
Motional capacitance $C_1$	fF	-	1.9	-
Motional inductance $L_1$	$\mu$ H	-	68.1	-
Motional resistance $R_1$	Ohm	-	16	25
Parallel capacitance $C_0$	pF	3.0	3.3	3.6
Temperature coefficient	ppm/°C <sup>2</sup>	-	0.032	-
Turnover $T_o$	deg.C	24	39	54
Package size		F11		

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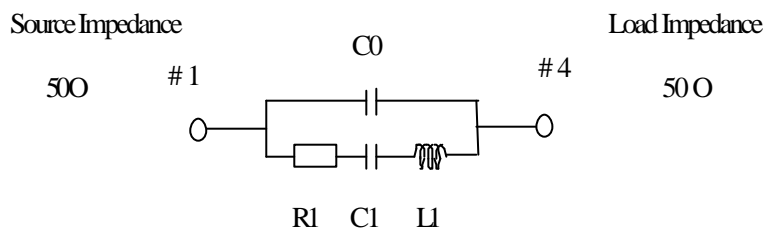
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**D. OUTLINE DRAWING:**



**E. EQUIVALENT CIRCUIT:**

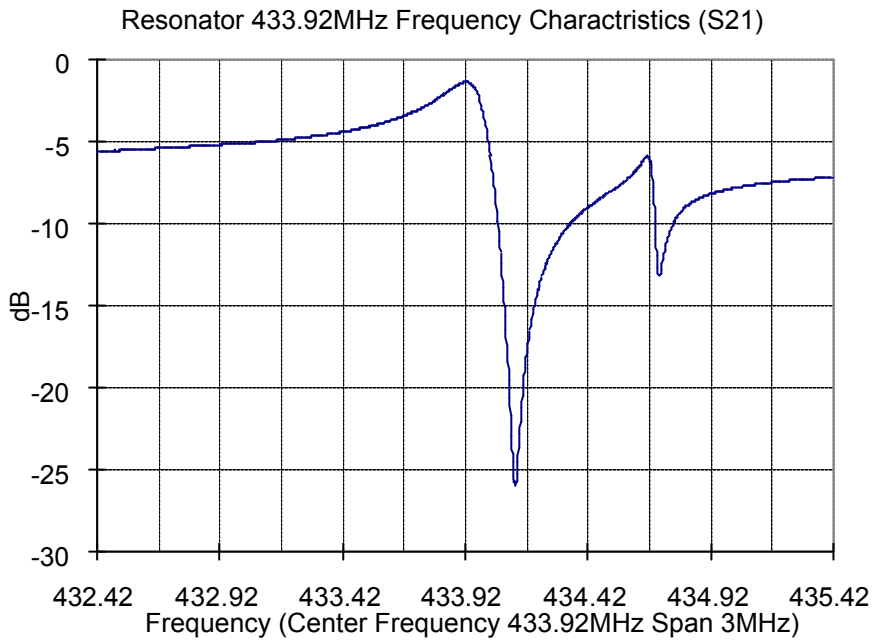
One-Port Resonator:



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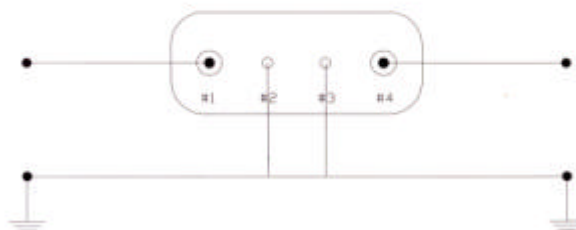
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**F. FREQUENCY CHARACTERISTICS:**



**G. TEST CIRCUIT:**

From 50Ω  
Network  
Analyzer



To 50Ω  
Network  
Analyzer