

SAW Resonator 433.920MHz
Part No: MA06433

Model: TC0232A
REV. NO.: 2

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:

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

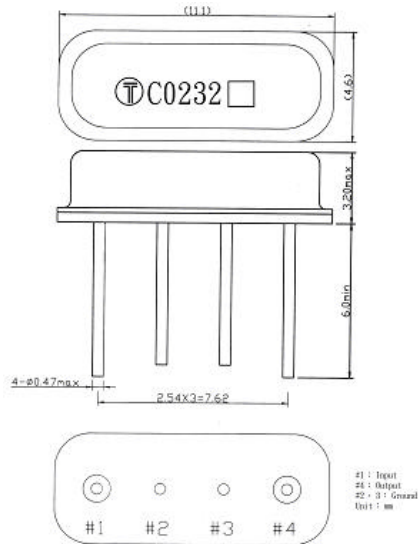
Characteristic	Units	Minimum	Typical	Maximum
Center frequency f_c	MHz	433.820	433.920	434.020
Insertion Loss IL	dB	-	1.3	2
Ageing of f_c	ppm/yr	-	-	10
Motional capacitance C_1	fF	-	4.2	-
Motional inductance L_1	μH	-	32	-
Motional resistance R_1	Ohm	-	14	-
Parallel capacitance C_0	pF	-	3.9	-
Frequency Temperature coefficient (TC_f)	ppm/ $^\circ\text{C}^2$	-	0.032	-
Turnover T_0	$^\circ\text{C}$	10	25	40
Package size			F11	

Temperature dependence of f_c : $f_c(T_A)=f_c(T_0)(1+TC_f(T_A-T_0)^2)$

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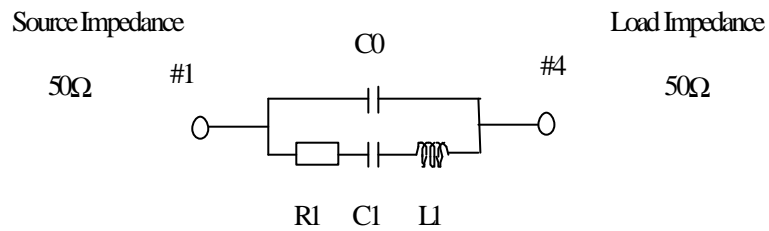
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D. OUTLINE DRAWING:



E. EQUIVALENT CIRCUIT:

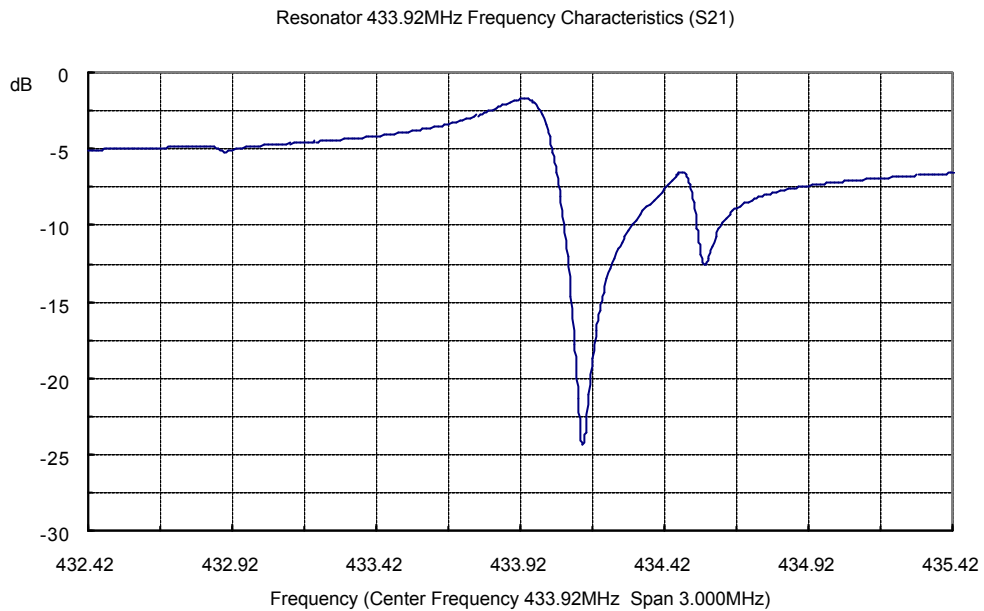
One-Port Resonator:



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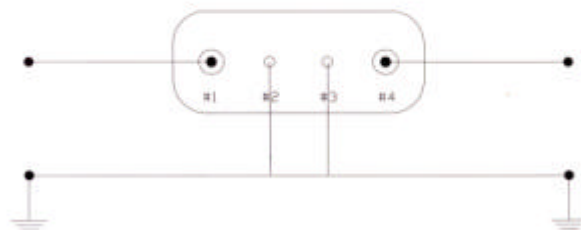
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F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

From 50Ω
Network
Analyzer



To 50Ω
Network
Analyzer