

SAW Resonator 435.7 MHz

Model: TC0240A

Part No: MA05305

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:

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

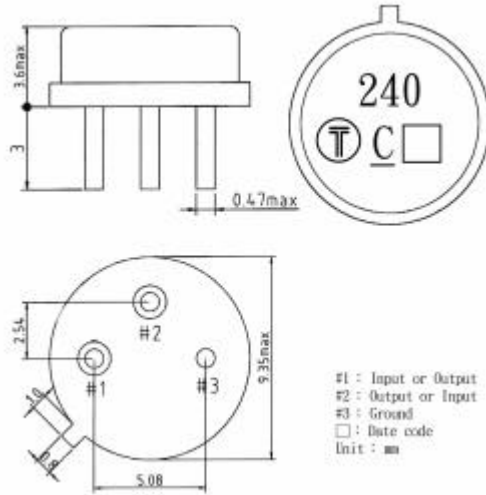
Characteristic	Units	Minimum	Typical	Maximum
Center frequency F_c	MHz	435.625	435.7	435.775
Insertion Loss IL	dB	-	1.2	2.0
Unload quality factor Q_U		6000	11000	-
Ageing of f_c	ppm/yr	-	-	10
Motional capacitance C1	fF	-	1.51	-
Motional inductance L1	H	-	88.36	-
Motional resistance R1	Ohm	-	19.4	-
Parallel capacitance C_o	pF	-	4.84	-
Frequency Temperature coefficient (TC_f)	ppm/c*2	-	0.032	-
Turnover T_o	deg.C	10	25	40
Package size	TO39			

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

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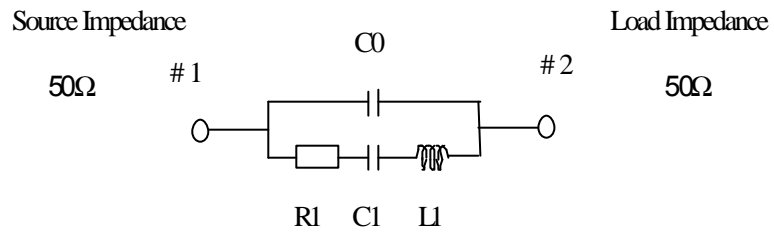
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D. OUTLINE DRAWING:



E. EQUIVALENT CIRCUIT:

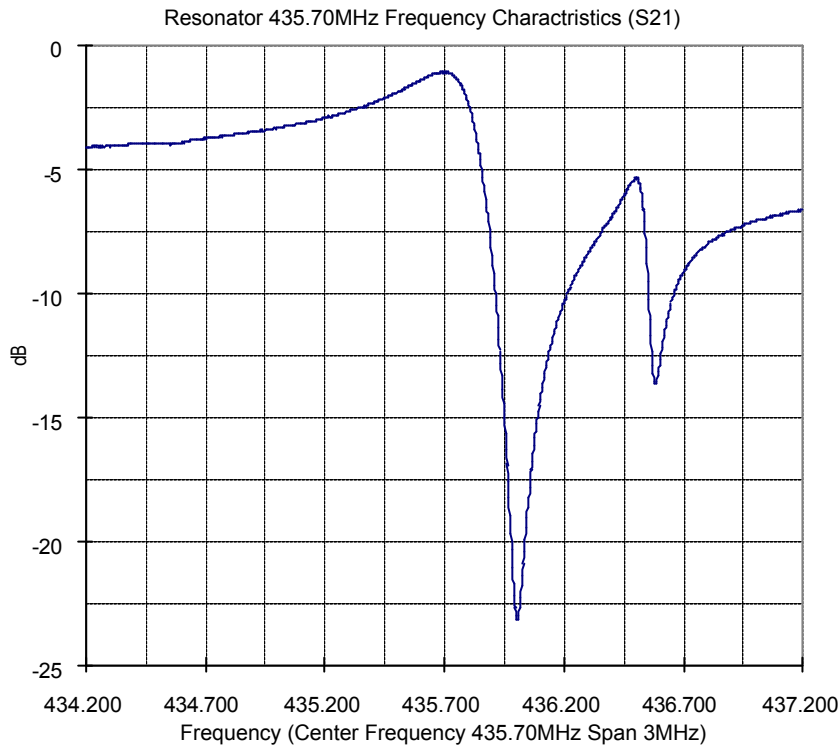
One-Port Resonator:



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F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

Network analyzer

