

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

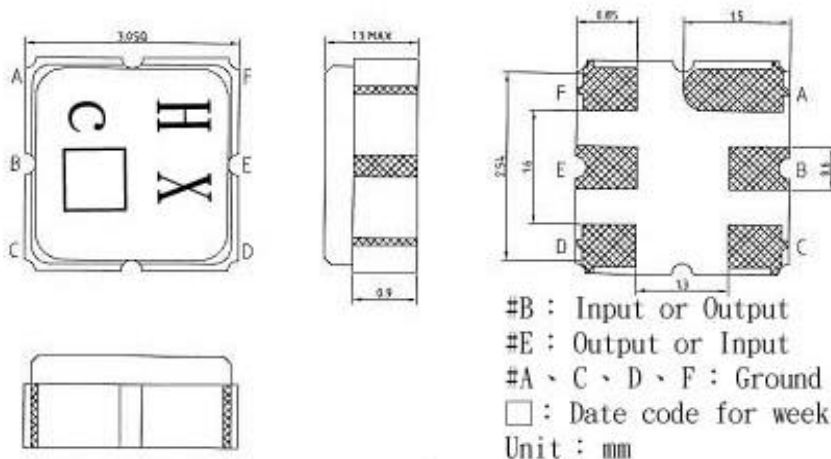
C. ELECTRICAL CHARACTERISTICS:

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:

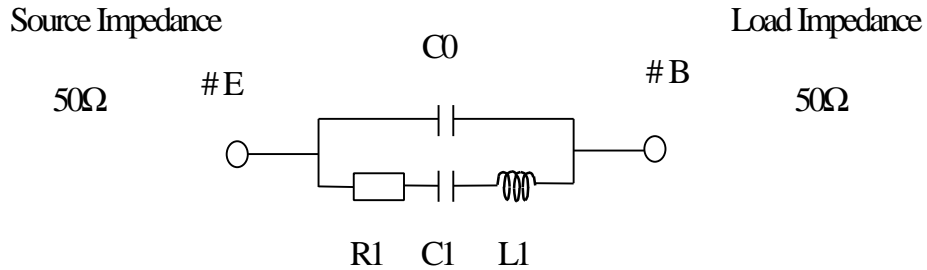


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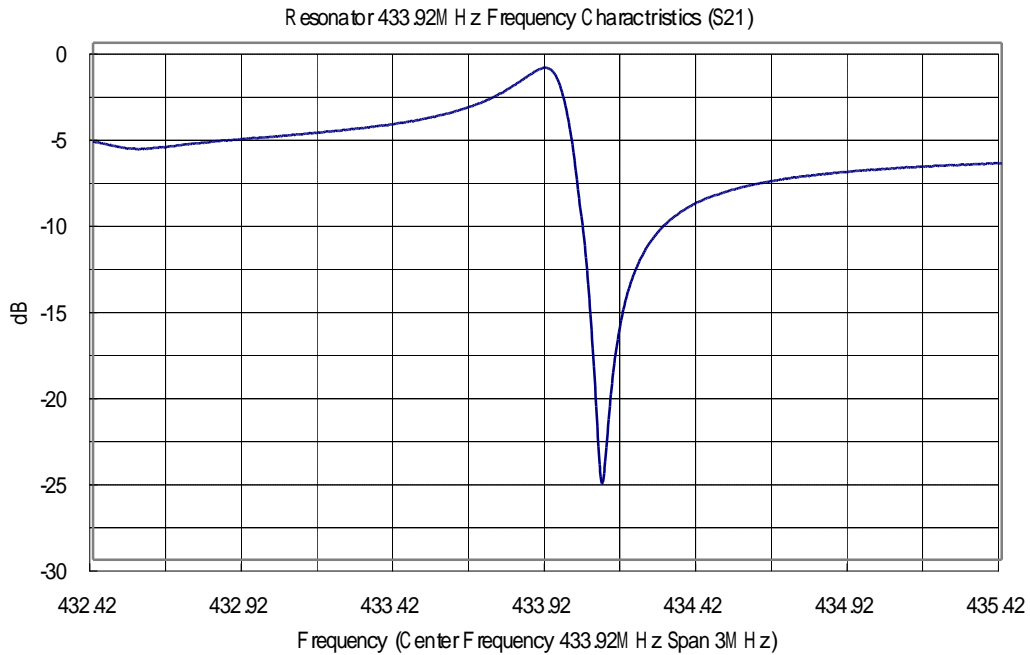
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E. EQUIVALENT CIRCUIT:

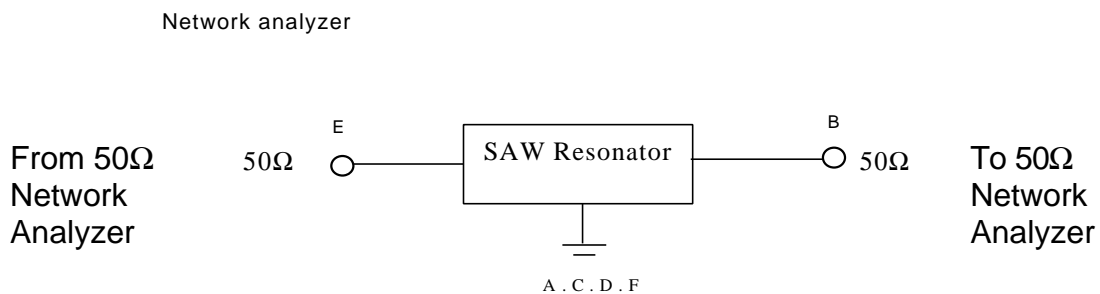
One-Port Resonator:



F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

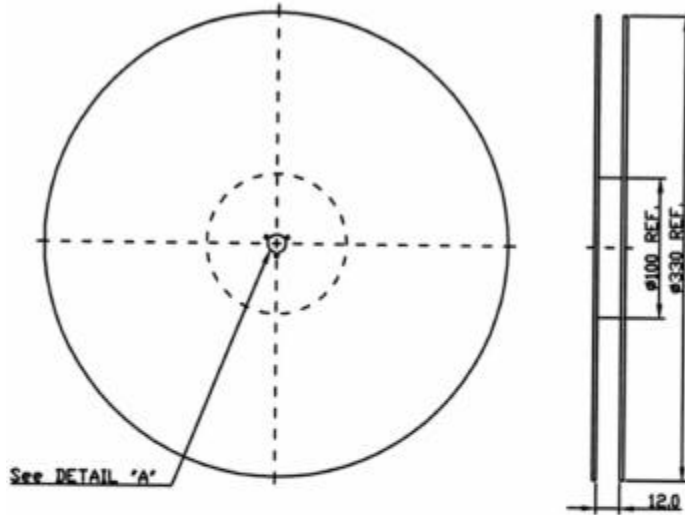


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H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

