

435.720MHz SAW Resonator

Model: TC0250A

Part No: MA08665

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:

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

Characteristic	Units	Minimum	Typical	Maximum
Center frequency f_c	MHz	435.645	435.72	435.795
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	-	1.68	-
Motional inductance L1	μH	-	85.4	-
Motional resistance R1	Ohm	-	17.8	-
Parallel capacitance C_o	pF	-	3.08	-
Frequency Temperature coefficient (TC_f)	ppm/c*2	-	0.032	-
Turnover T_o	deg.C	10	25	40
Package size	SMD 5X5X1.4mm			

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

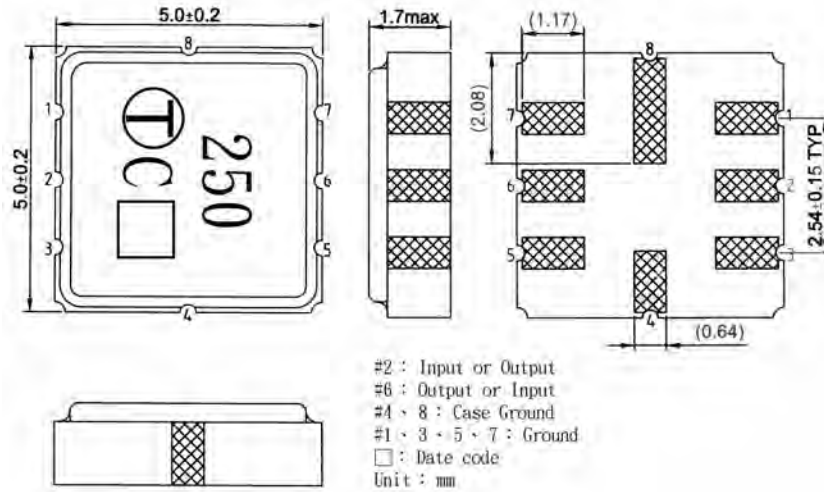
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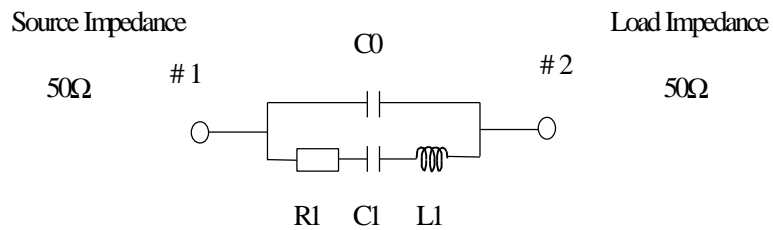
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D. OUTLINE DRAWING:



E. EQUIVALENT CIRCUIT:

One-Port Resonator:



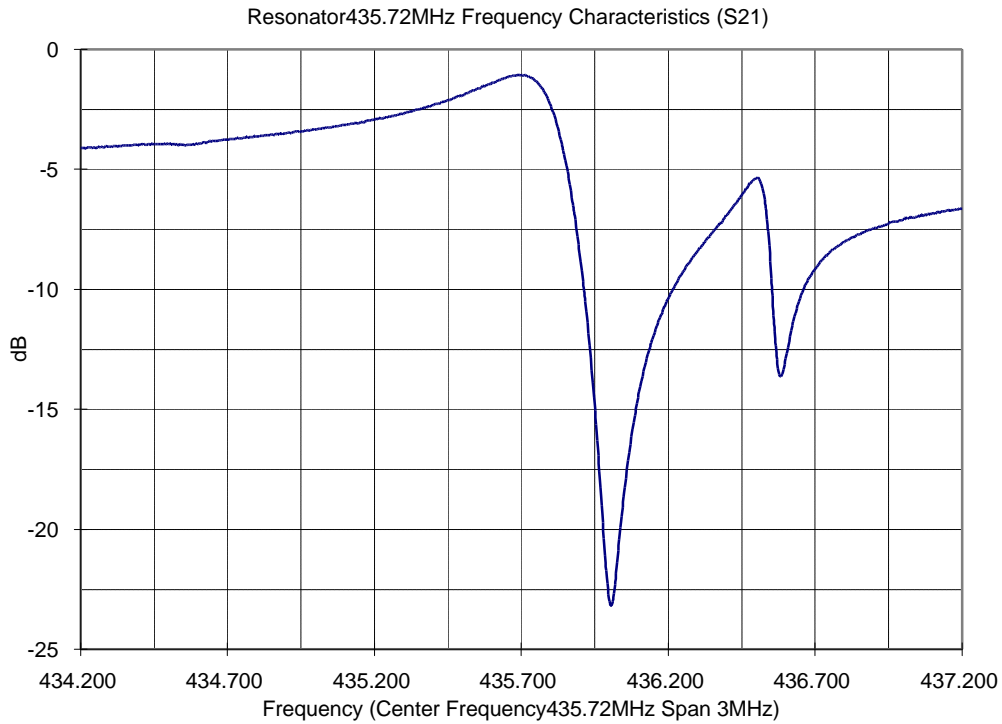
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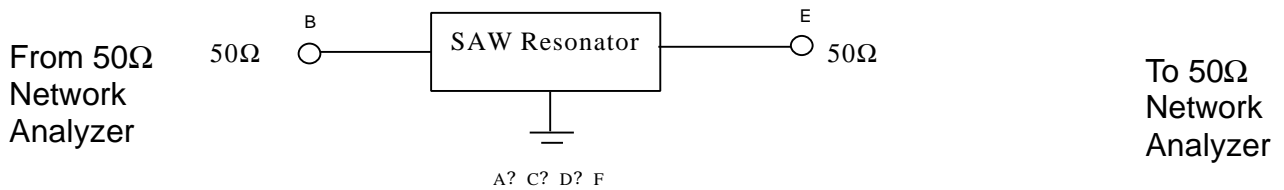
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F. FREQUENCY CHARACTERISTICS:

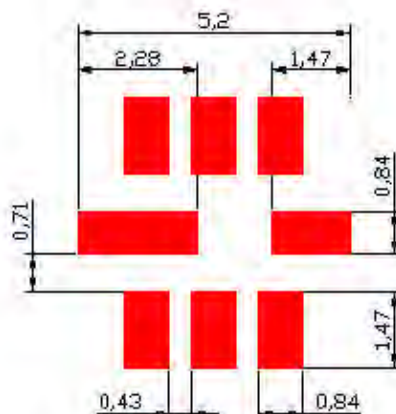


G. TEST CIRCUIT:

Network analyzer



H. PCB FOOT PRINT:



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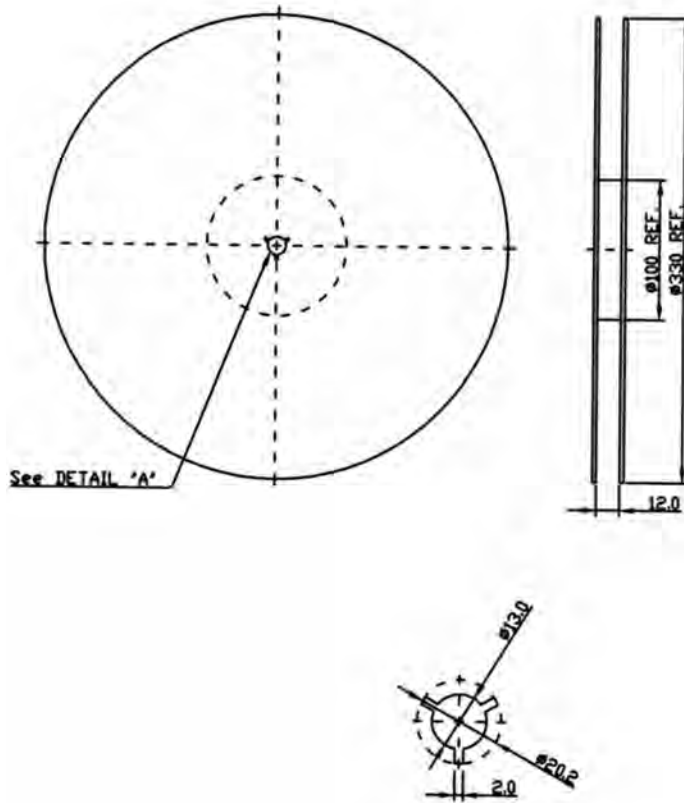
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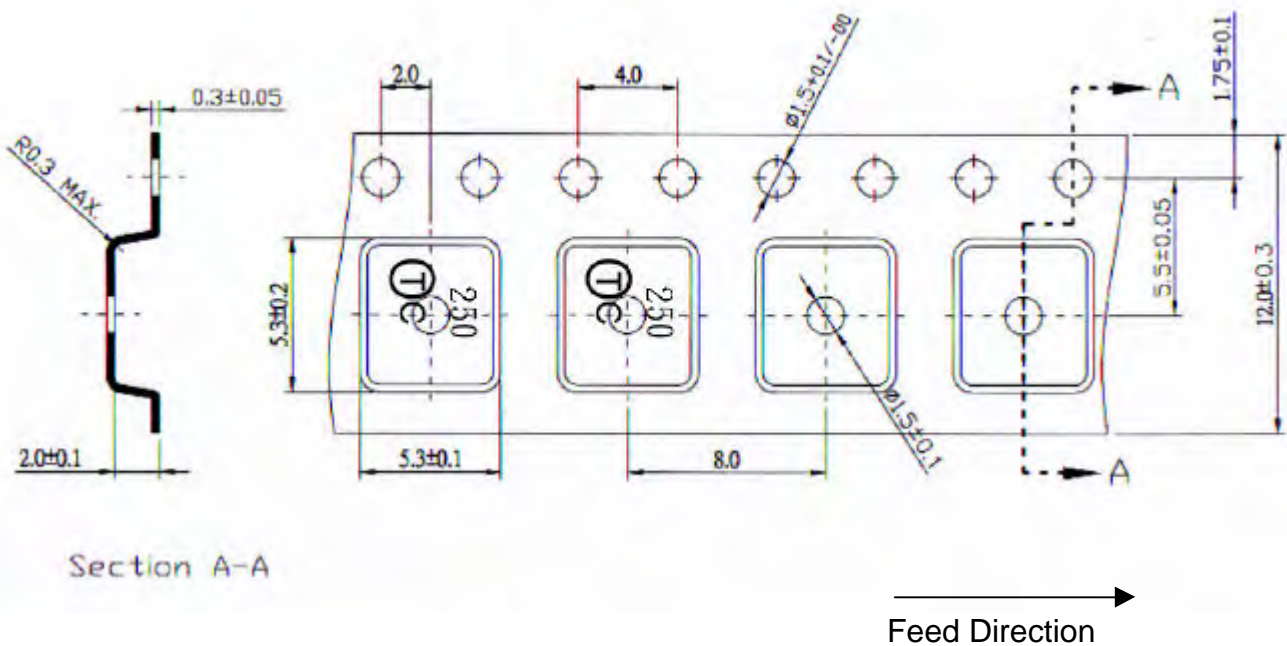
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H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



Section A-A

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Feed Direction