



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Resonator 433.385 MHz SMD 5X5 mm

TST Parts No.: TC0241A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Vincent Liu

Approval by: _____ Francis Chen

Date: _____ 2003/12/03



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SAW Resonator 433.385 MHz

MODEL NO.: TC0241A

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

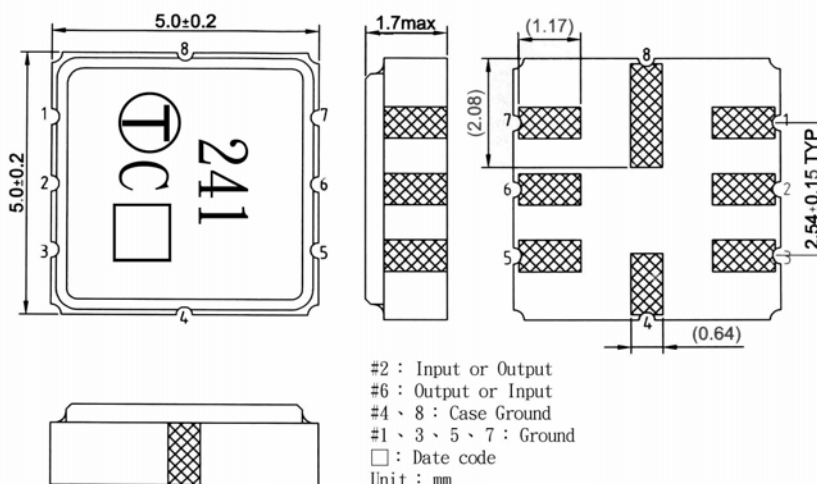
C. ELECTRICAL CHARACTERISTICS:

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

Characteristic	Units	Minimum	Typical	Maximum
Center frequency F_c	MHz	433.345	433.385	433.425
Insertion Loss IL	dB	-	1.0	2.0
Unload quality factor Q_u		6000	14500	-
Ageing of f_c	ppm/yr	-	-	±10
Motional capacitance C₁	fF	-	1.8	-
Motional inductance L₁	μH	-	73	-
Motional resistance R₁	Ohm	-	13	-
Parallel capacitance C_o	pF	-	3.0	-
Frequency Temperature coefficient (TC _f)	ppm/c*2	-	0.032	-
Turnover To	deg.C	10	25	40
Package size	SMD 5X5X1.4mm			

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

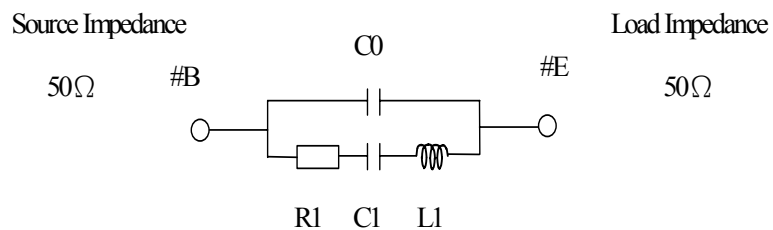
D. OUTLINE DRAWING:



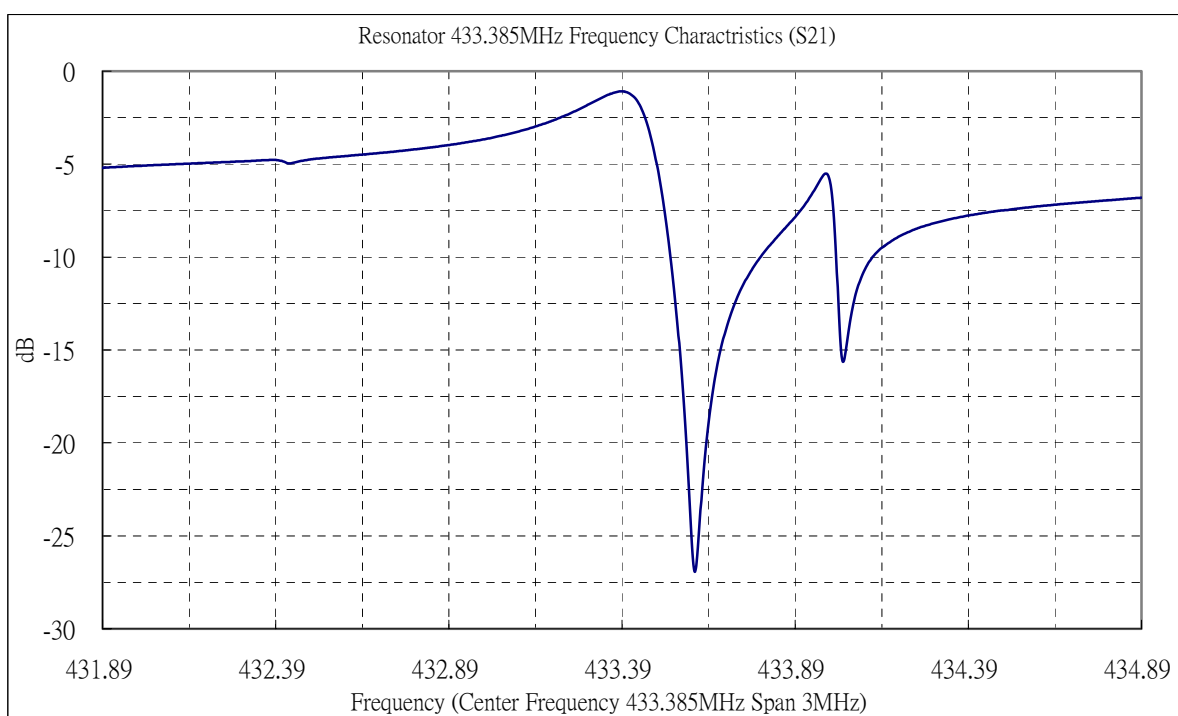
RoHS Compliant
Lead free
Lead-free soldering

E. EQUIVALENT CIRCUIT:

One-Port Resonator:



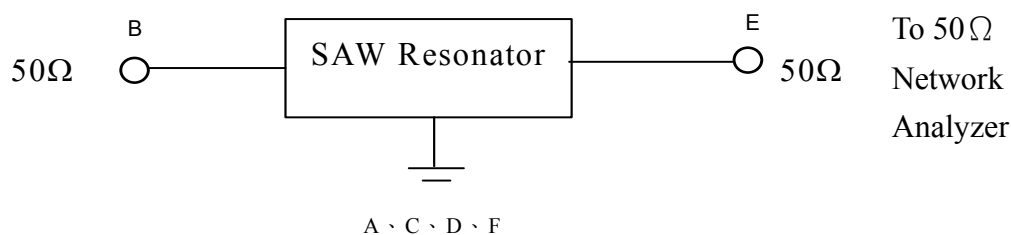
F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

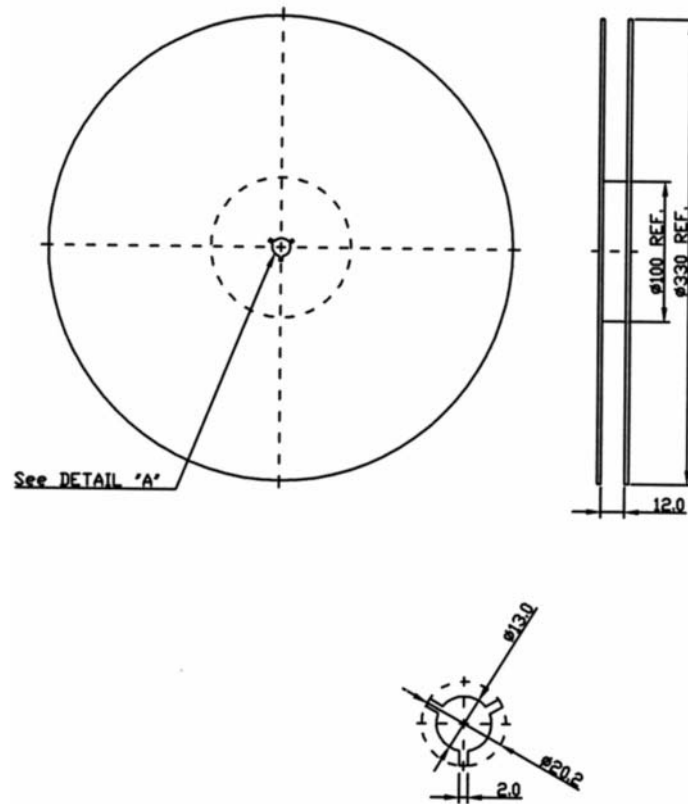
Network analyzer

From 50Ω
Network
Analyzer



H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

