



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Resonator 403.966 MHz SMD 5X5 mm

TST Parts No.: TC0243A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: Vincent Liu

Approval by: Francis Chen

Date: 2004/02/06



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SAW Resonator 403.966 MHz

MODEL NO.: TC0243A

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:

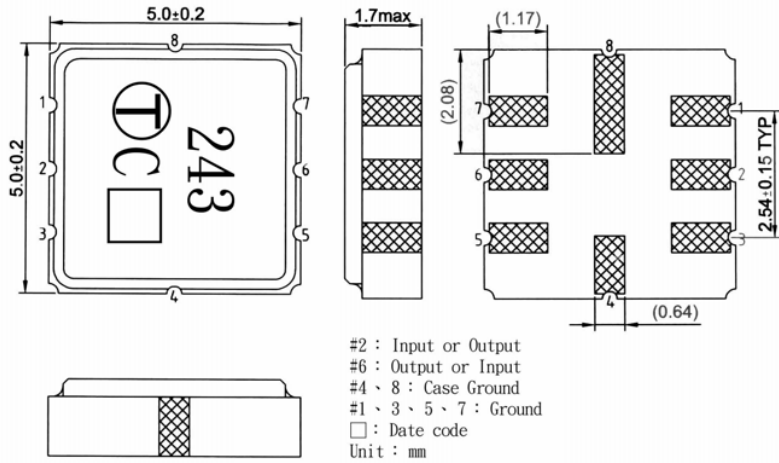
Reference Temperature $T_A=25^\circ\text{C}$

Characteristic	Units	Minimum	Typical	Maximum
Center frequency Fc	MHz	403.891	403.966	404.041
Insertion Loss IL	dB	-	0.8	2.0
Unloaded Quality factor, Q_U		-	14000	-
Ageing of f_c	ppm/yr	-	-	± 10
Motional capacitance C1	fF	-	2.15	-
Motional inductance L1	μH	-	72.2	-
Motional resistance R1	Ohm	-	12.95	-
Parallel capacitance Co	pF	-	3.65	-
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 : $f_c(T_A)=f_c(T_O)(1+TC_f(T_A-T_O)^2)$

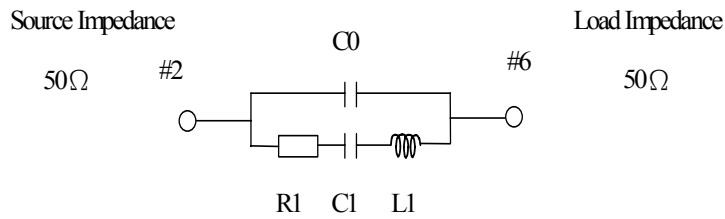
D. OUTLINE DRAWING:

RoHS Compliant
Lead free
Lead-free soldering

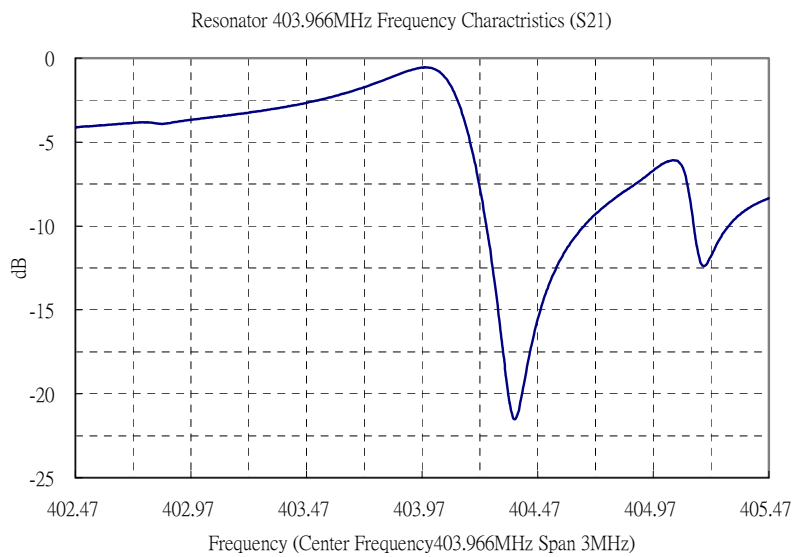


E. EQUIVALENT CIRCUIT:

One-Port Resonator:



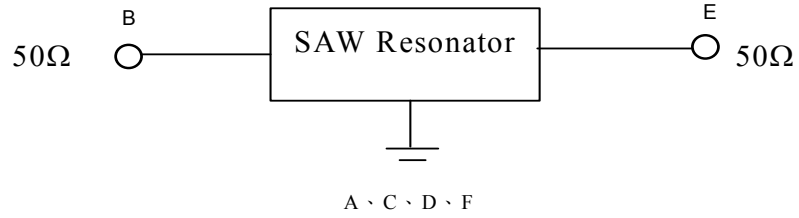
F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

Network analyzer

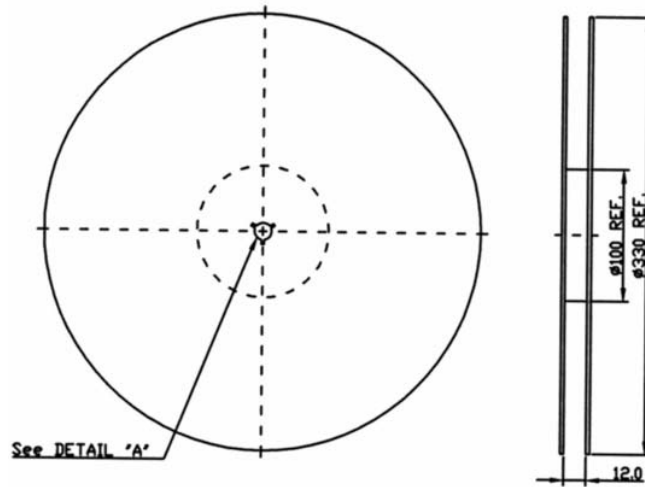
From 50Ω
Network
Analyzer



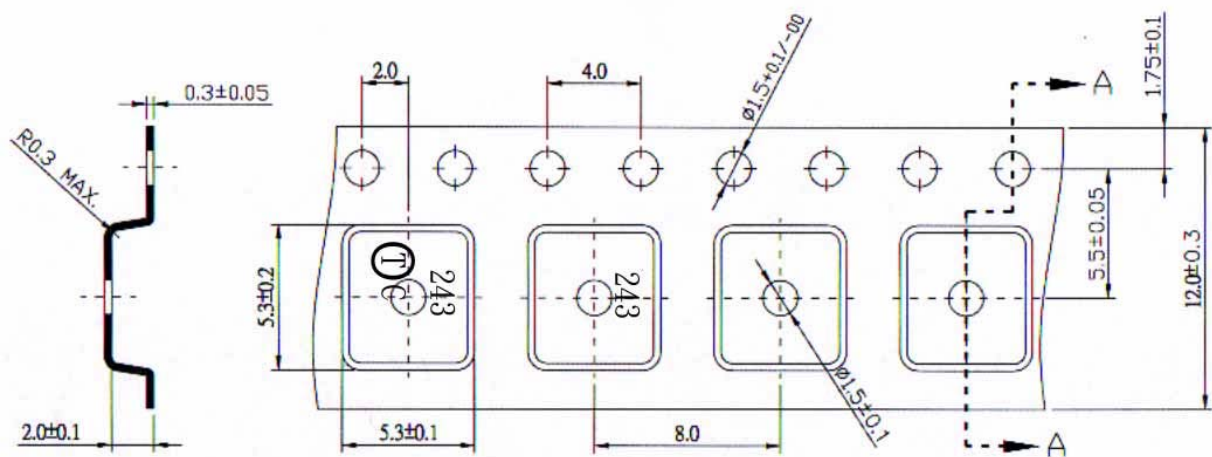
To 50Ω
Network
Analyzer

H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



Section A-A