



TAI-SAW TECHNOLOGY CO., LTD.

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

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Name: SAW Resonator 390 MHz SMD 3.8X3.8 mm

TST Parts No.: TC0251A

Customer Parts No.: _____

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

Checked by: _____ Hongpu Lin *Hong Pu Lin*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2018/07/30

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



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SAW Resonator 390 MHz

MODEL NO.: TC0251A

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
5. Moisture Sensitivity Level: Level 1 (MSL1)

C. ELECTRICAL CHARACTERISTICS:

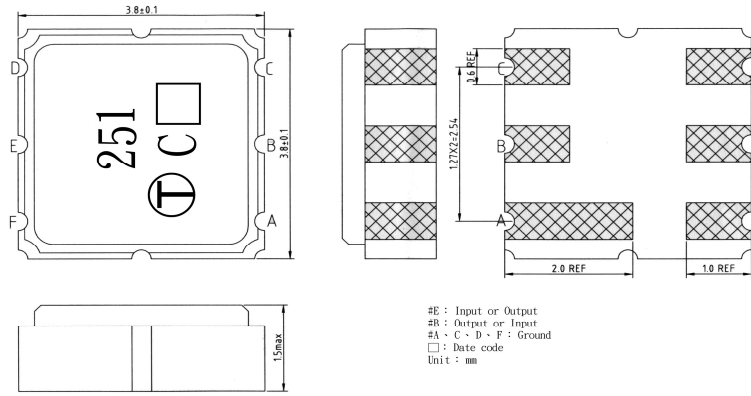
Reference Temperature $T_A=25^\circ\text{C}$

Characteristic	Units	Minimum	Typical	Maximum
Center frequency F_c	MHz	389.900	390.000	390.100
Insertion Loss IL	dB	-	0.9	2.0
Unload quality factor Q_u		6000	8000	-
Ageing of f _c	ppm/yr	-	-	±10
Motional capacitance C₁	fF	-	4.33	-
Motional inductance L₁	μH	-	38.46	-
Motional resistance R₁	Ohm	-	11.84	-
Parallel capacitance C_o	pF	-	5.43	-
Frequency Temperature coefficient (C _f)	ppm/c*2	-	0.032	-
Turnover T _o	deg.C	10	25	40
Package size		SMD 3.8X3.8X1.1 mm		

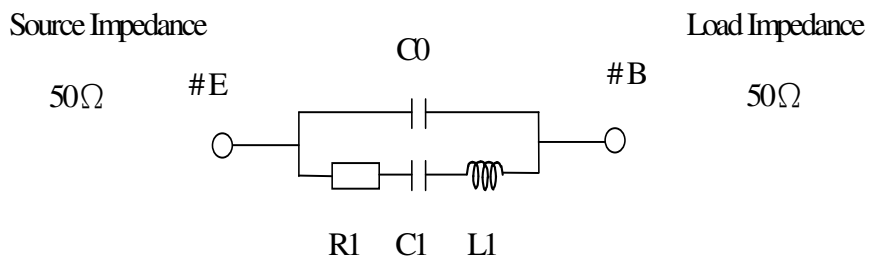
Temperature dependence of f_c: $f_c(T_A)=f_c(T_O)(1+TC_f(T_A-T_O)^2)$

D. OUTLINE DRAWING:

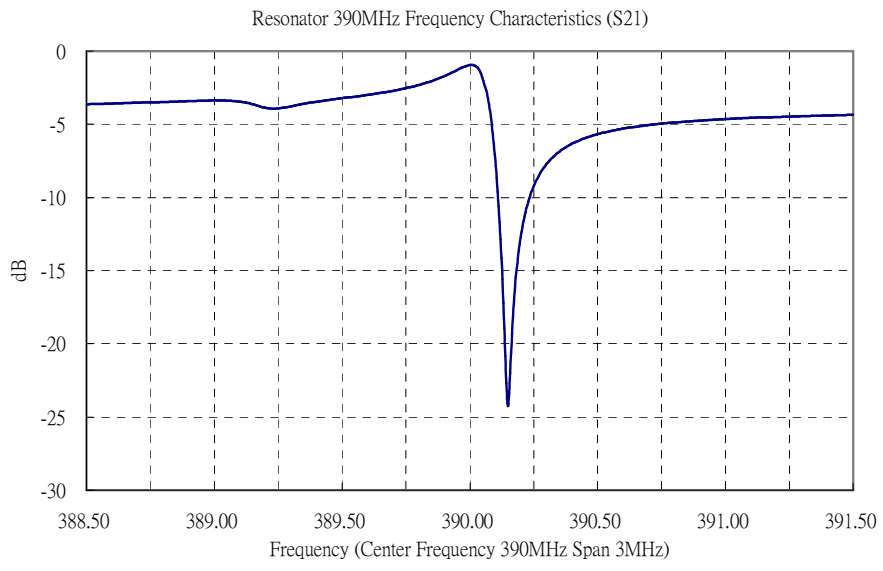
RoHS Compliant
Lead free
Lead-free soldering



E. EQUIVALENT CIRCUIT:
One-Port Resonator:



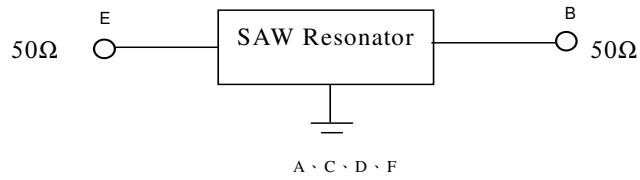
F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

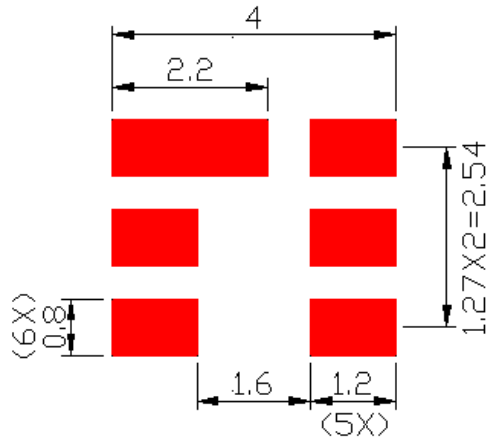
Network analyzer

From 50Ω
Network
Analyzer



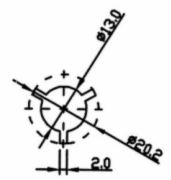
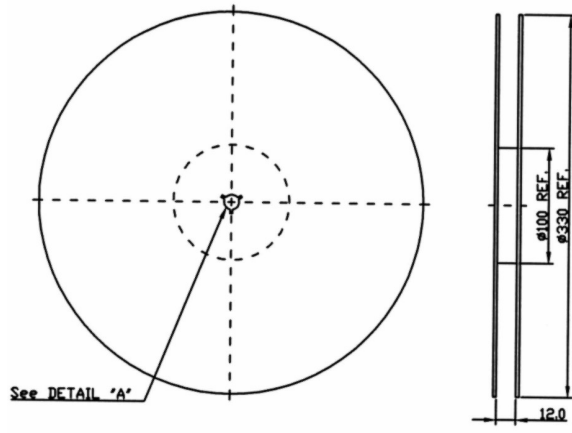
To 50Ω
Network
Analyzer

H. PCB Foot Print:

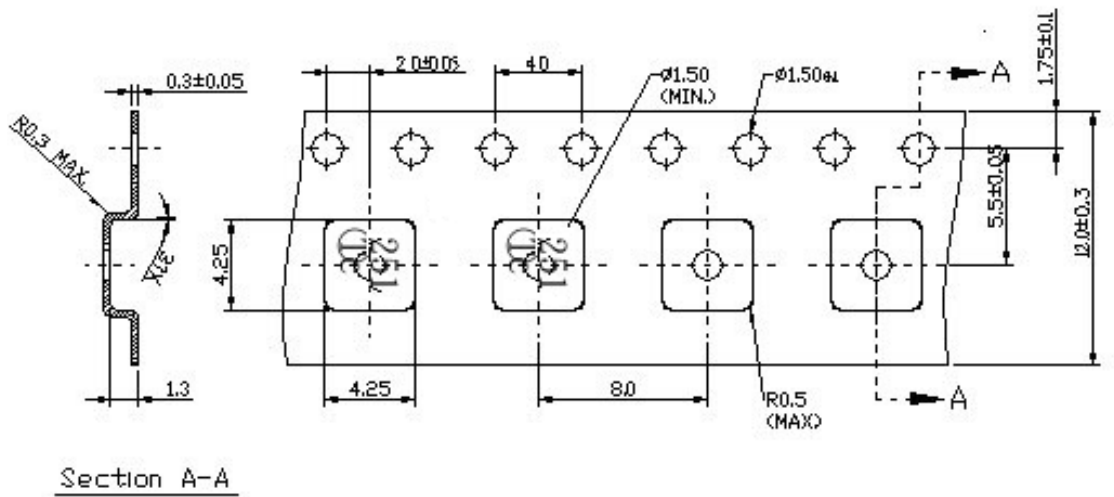


I. PACKING:

1. REEL DIMENSION



2.TAPE DIMENSION



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Feed Direction