



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

Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Resonator 479.45 MHz SMD 3X3 mm

TST Parts No.: TC0238A

Customer Parts No.: _____

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

Checked by: Vincent Liu

Approval by: Francis Chen

Date: 2003/11/28



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

SAW Resonator 479.45 MHz

MODEL NO.: TC0238A

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

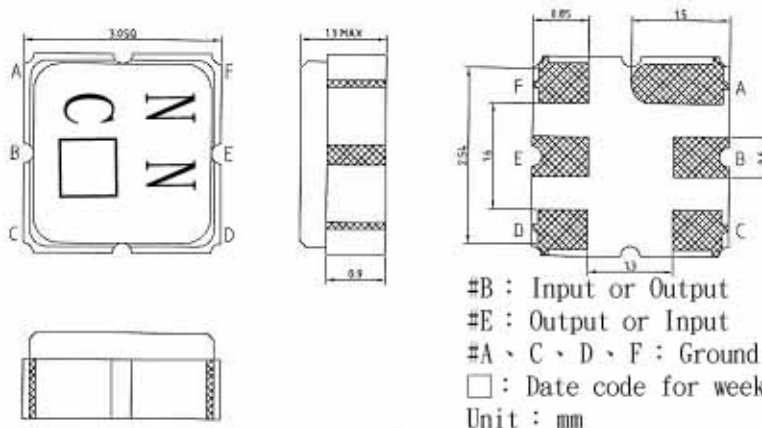
C. ELECTRICAL CHARACTERISTICS:

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

Characteristic	Units	Minimum	Typical	Maximum
Center frequency Fc	MHz	479.375	479.450	479.525
Insertion Loss IL	dB	-	1.41	2.5
Unload quality factor Q_U		6000	10000	-
Ageing of fc	ppm/yr	-	-	± 10
Motional capacitance C1	fF	-	1.36	-
Motional inductance L1	μH	-	80.9	-
Motional resistance R1	Ohm	-	20.42	-
Parallel capacitance C_o	pF	-	2.77	-
Frequency Temperature coefficient (TC_f)	ppm/c*2	-	0.032	-
Turnover T_o	deg.C	10	25	40
Package size		SMD 3X3X1.1 mm		

Temperature dependence of fc: $f_c(T_A)=f_c(T_O)(1+\text{TC}_f(T_A-T_O)^2)$

D. OUTLINE DRAWING:



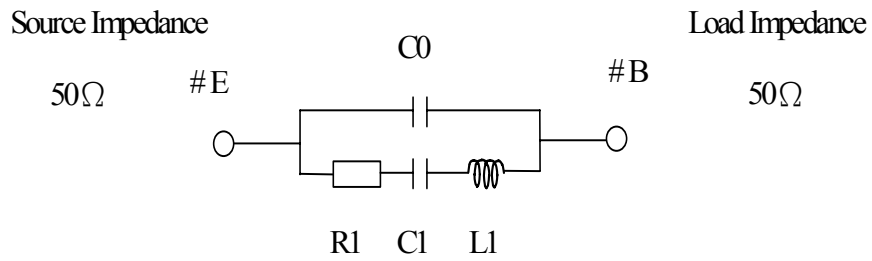
TAI-SAW TECHNOLOGY CO., LTD.

TST DCC
Release document

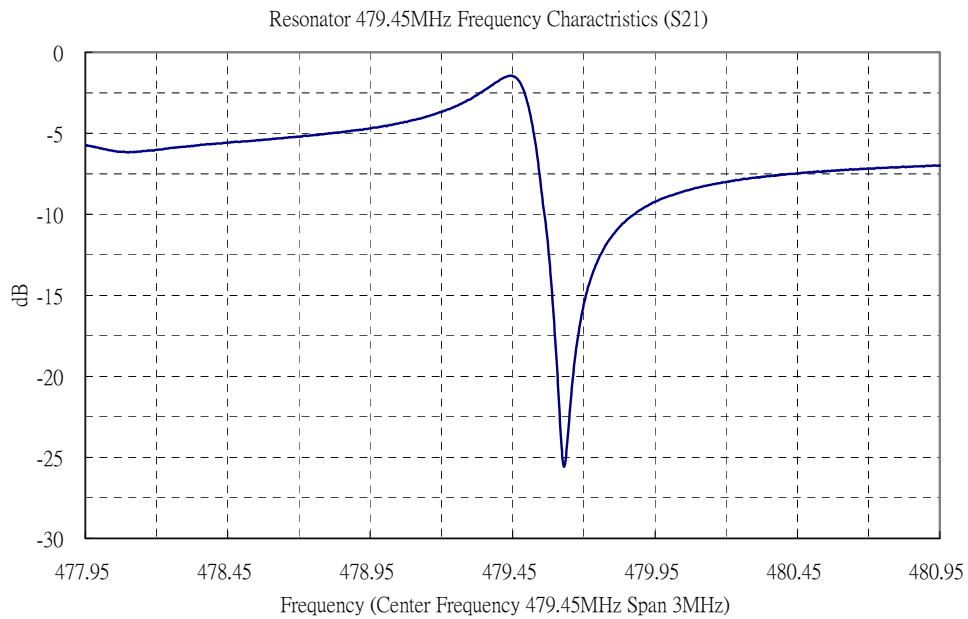
- 2 -

E. EQUIVALENT CIRCUIT:

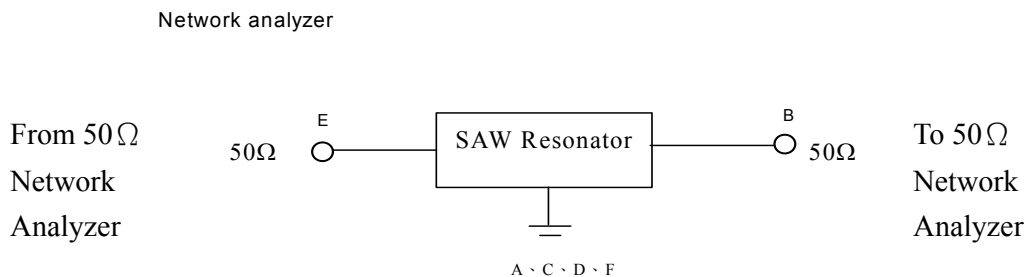
One-Port Resonator:



F. FREQUENCY CHARACTERISTICS:

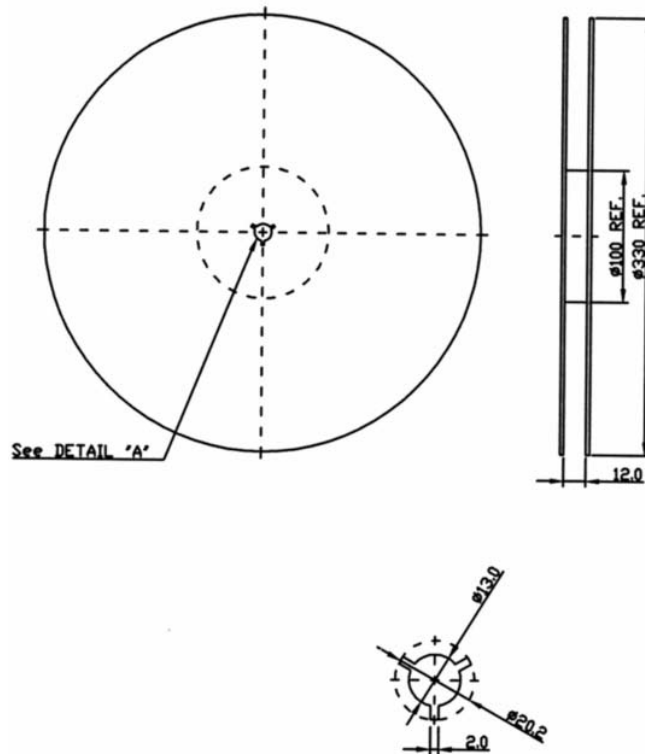


G. TEST CIRCUIT:



H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

