



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 868.35 MHz SMD5X5

TST Parts No.: TD0110A

Customer Parts No.: _____

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

Checked by: Vincent Liu

Approval by: Francis Chen

Date: 2003/12/08



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 868.35 MHz

MODEL NO.: TD0110A

REV. NO.:2

A. FEATURES:

1. 2-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

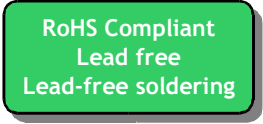
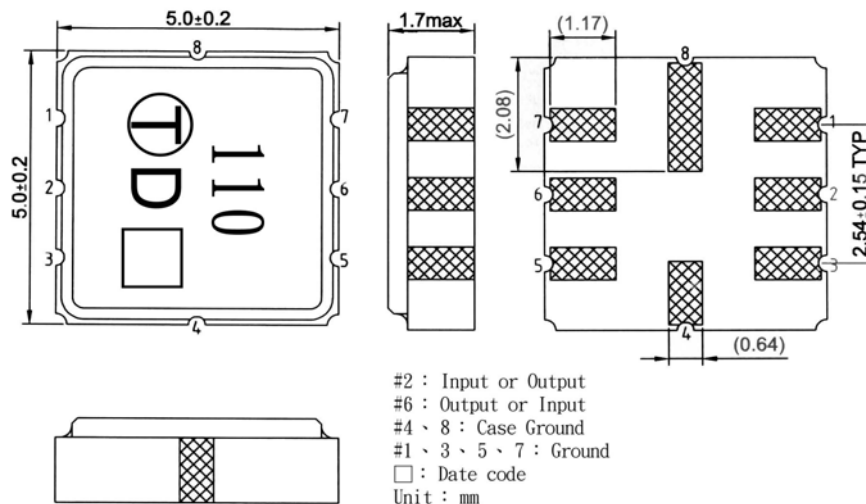
C. ELECTRICAL CHARACTERISTICS:

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

Characteristic	Units	Minimum	Typical	Maximum
Center frequency f_c	MHz	868.250	868.350	868.450
Insertion Loss IL	dB	-	6.7	9
Unload quality factor Q_U		4000	4900	-
Ageing of f_c	ppm/yr	-	-	± 10
Motional capacitance $C1$	fF	-	0.334	-
Motional inductance $L1$	μH	-	101.1	-
Motional resistance $R1$	Ohm	-	112.4	-
Parallel capacitance C_o	pF	-	1.6	-
Frequency Temperature coefficient (TC_f)	ppm/c*2	-	0.032	-
Turnover T_o	deg.C	10	25	40
Package size		SMD5X5		

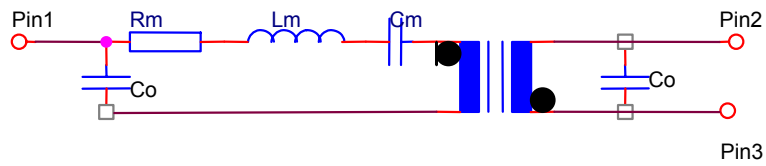
Temperature dependence of f_c : $f_c(T_A)=f_c(T_O)(1+TC_f(T_A-T_O)^2)$

D. OUTLINE DRAWING:

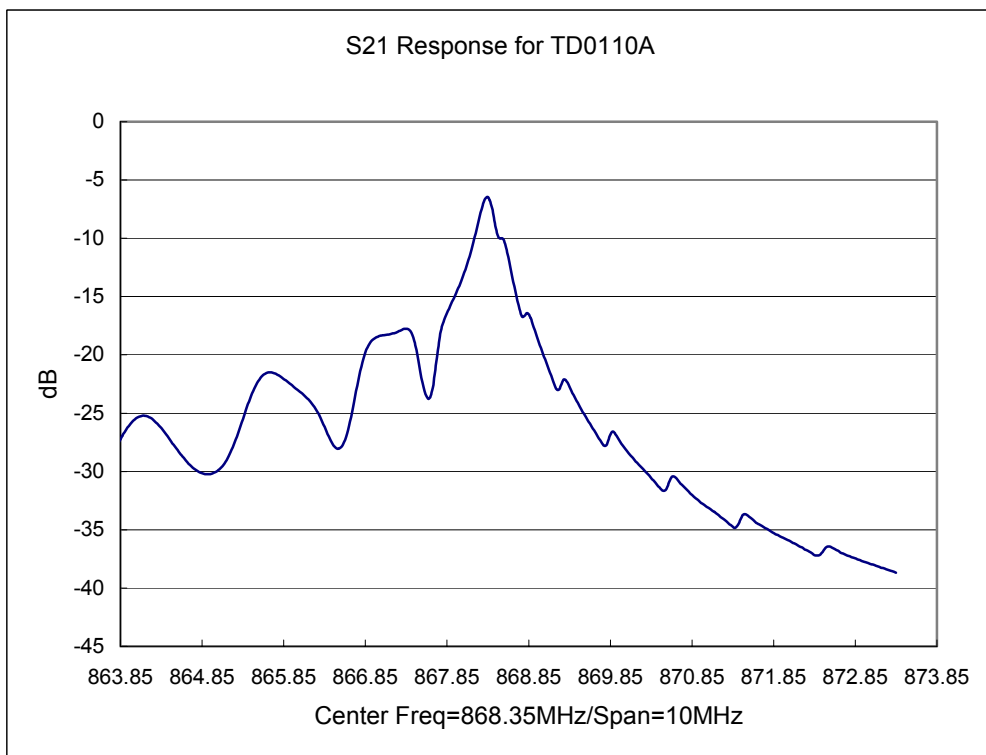


E. EQUIVALENT CIRCUIT:

Two-Port Resonator:

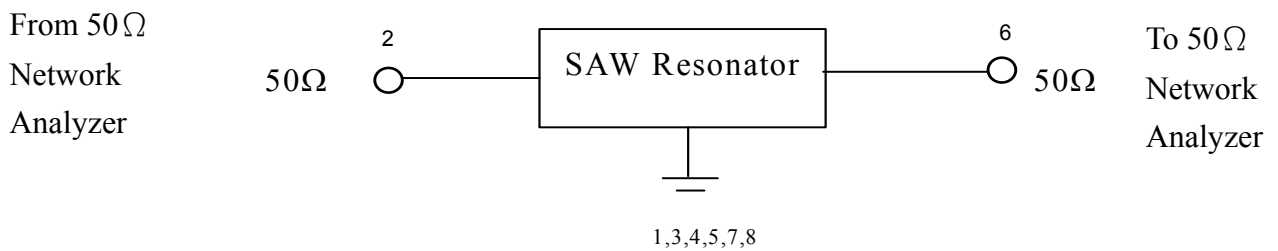


F. FREQUENCY CHARACTERISTICS:



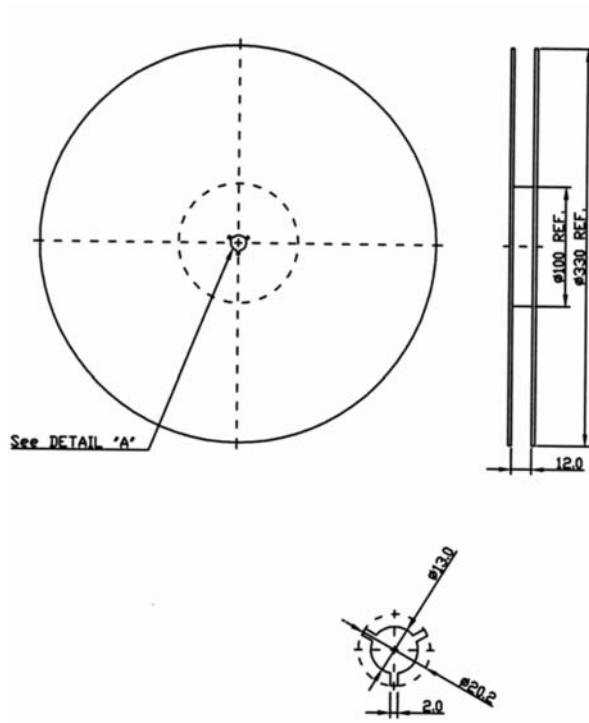
G. TEST CIRCUIT:

Network analyzer



H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

