



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Resonator 433.92 MHz F11

TST Parts No.: TC0232A

Customer Parts No.: _____

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

Checked by: Vincent Liu

Approval by: Francis Chen

Date: 2003/12/16



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SAW Resonator 433.92 MHz

MODEL NO.: TC0232A

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

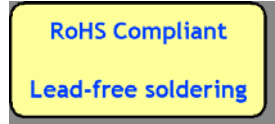
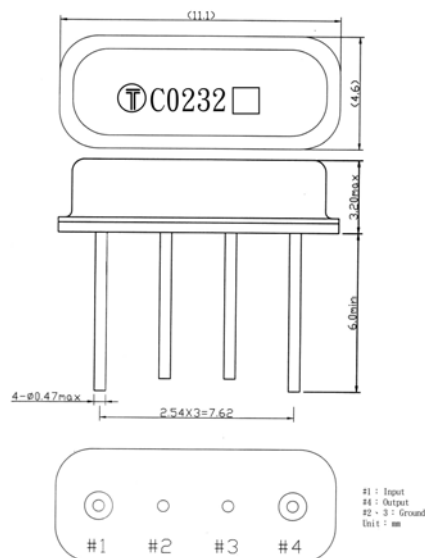
C. ELECTRICAL CHARACTERISTICS:

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

Characteristic	Units	Minimum	Typical	Maximum
Center frequency f_c	MHz	433.820	433.920	434.020
Insertion Loss IL	dB	-	1.3	2
Ageing of f_c	ppm/yr	-	-	± 10
Motional capacitance $C1$	fF	-	4.2	-
Motional inductance $L1$	μH	-	32	-
Motional resistance $R1$	Ohm	-	14	-
Parallel capacitance C_0	pF	-	3.9	-
Frequency Temperature coefficient (TC_f)	ppm/c*2	-	0.032	-
Turnover T_0	deg.C	10	25	40
Package size		F11		

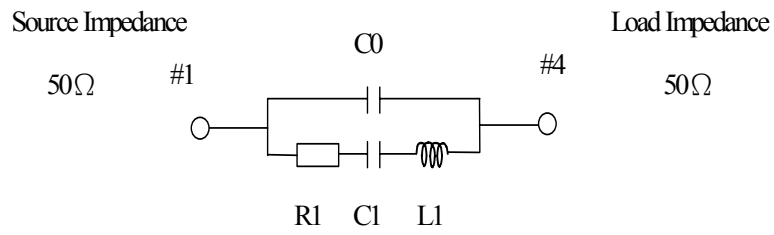
Temperature dependence of f_c : $f_c(T_A)=f_c(T_0)(1+TC_f(T_A-T_0)^2)$

D. OUTLINE DRAWING:

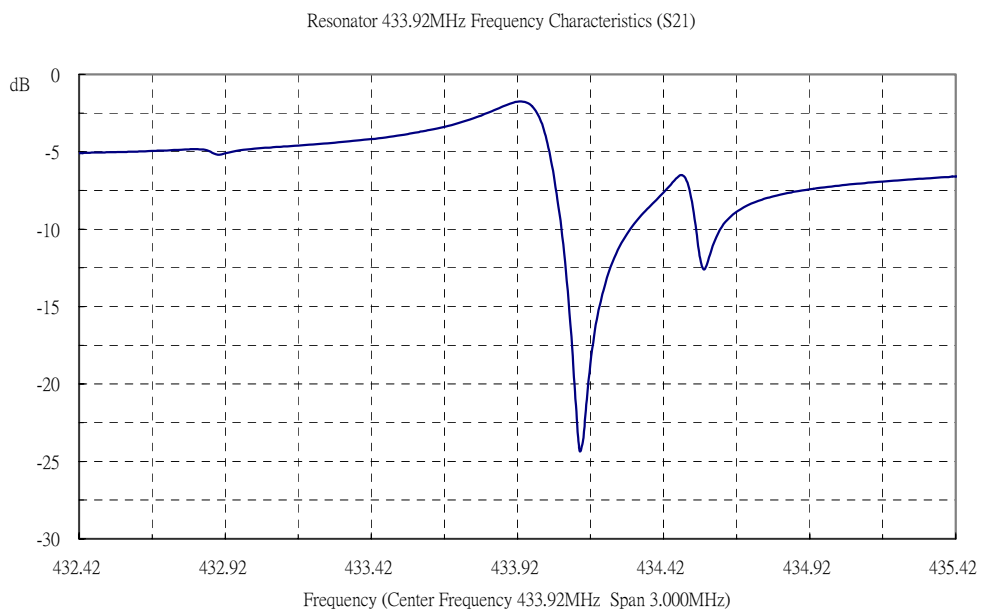


E. EQUIVALENT CIRCUIT:

One-Port Resonator:

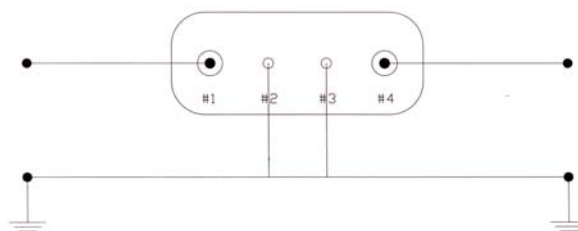


F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

From 50Ω
Network
Analyzer



To 50Ω
Network
Analyzer