



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Resonator 915 MHz SMD 5X5 mm

TST Parts No.: TC0234A

Customer Parts No.: _____

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

Checked by: Vincent Liu

Approval by: Francis Chen

Date: 2003/10/07



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SAW Resonator 915 MHz

MODEL NO.: TC0234A

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

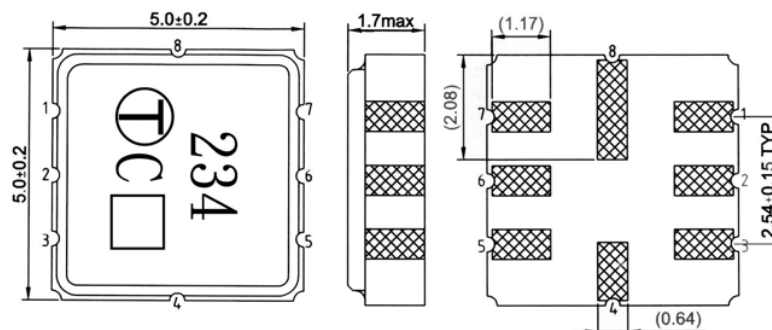
C. ELECTRICAL CHARACTERISTICS:

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

Characteristic	Units	Minimum	Typical	Maximum
Center frequency F_c	MHz	914.850	915	915.150
Insertion Loss IL	dB	-	1.1	2.0
Unload quality factor Q_U		5000	6200	-
Ageing of f _c	ppm/yr	-	-	±10
Motional capacitance C1	fF	-	1.39	-
Motional inductance L1	μH	-	21.8	-
Motional resistance R1	Ohm	-	20.3	-
Parallel capacitance C_o	pF	-	2.6	-
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:

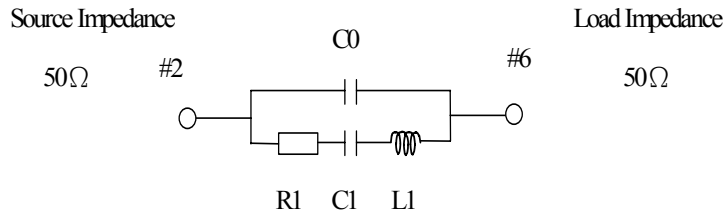


#2 : Input or Output
 #6 : Output or Input
 #4、8 : Case Ground
 #1、3、5、7 : Ground
 □ : Date code
 Unit : mm

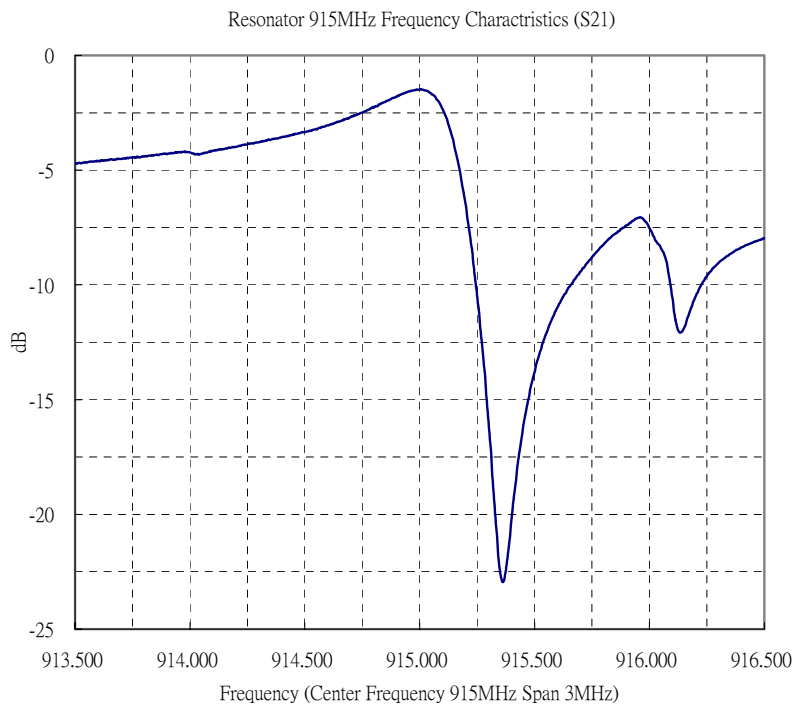
RoHS Compliant
 Lead free
 Lead-free soldering

E. EQUIVALENT CIRCUIT:

One-Port Resonator:



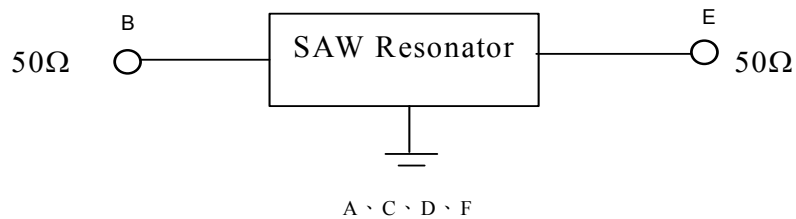
F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

Network analyzer

From 50Ω
Network
Analyzer



To 50Ω
Network
Analyzer

