



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: 433.92/390MHz SMD 5.0 x 5.0 mm Dual SAW Resonator

TST Parts No.:TE0116A

Customer Parts No.:_____

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

Checked by:_____ Kazuma Lee 

Approval by:_____ Bob Chau 

Date:_____ 05 / 16 / 2014

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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Dual SAW Resonator 433.92/390MHz

MODEL NO.: TE0116A

REV. NO : 1.0

A. FEATURES:

1. 1-Port Resonator.

B. MAXIMUM RATING:

1. Input Power Level: 0 dBm
2. DC voltage: 3 V
3. Operating Temperature: -30°C to +70°C
4. Storage Temperature: -40°C to +85°C

C. ELECTRICAL CHARACTERISTICS:

RoHS Compliant
Lead free
Lead-free soldering

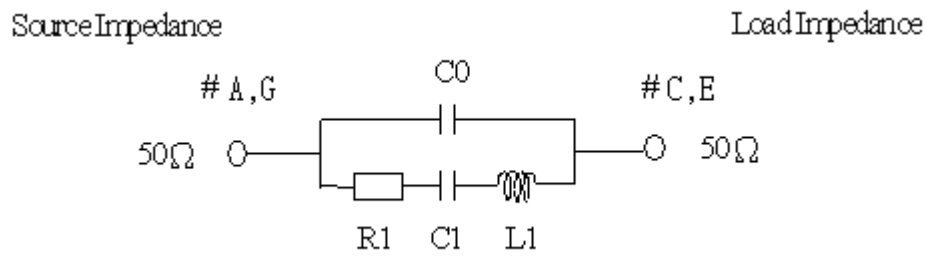
Electrostatic Sensitive Device

Characteristic	Units	Minimum	Typical	Maximum
Center frequency Fr	MHz	389.9	390.0	390.1
Insertion Loss IL	dB	-	1.50	2.5
Equivalent Elements				
Motional capacitance C1	fF	-	2.76	-
Motional inductance L1	μH	-	60.41	-
Motional resistance R1	Ohm	-	19.75	-
Parallel capacitance Co	pF	-	4.21	-
Temp.coeff.	ppm/C ²	-	0.032	-
Turnover To	deg.C	-	25	-
Package size		SMD 5.0X5.0X1.4mm		

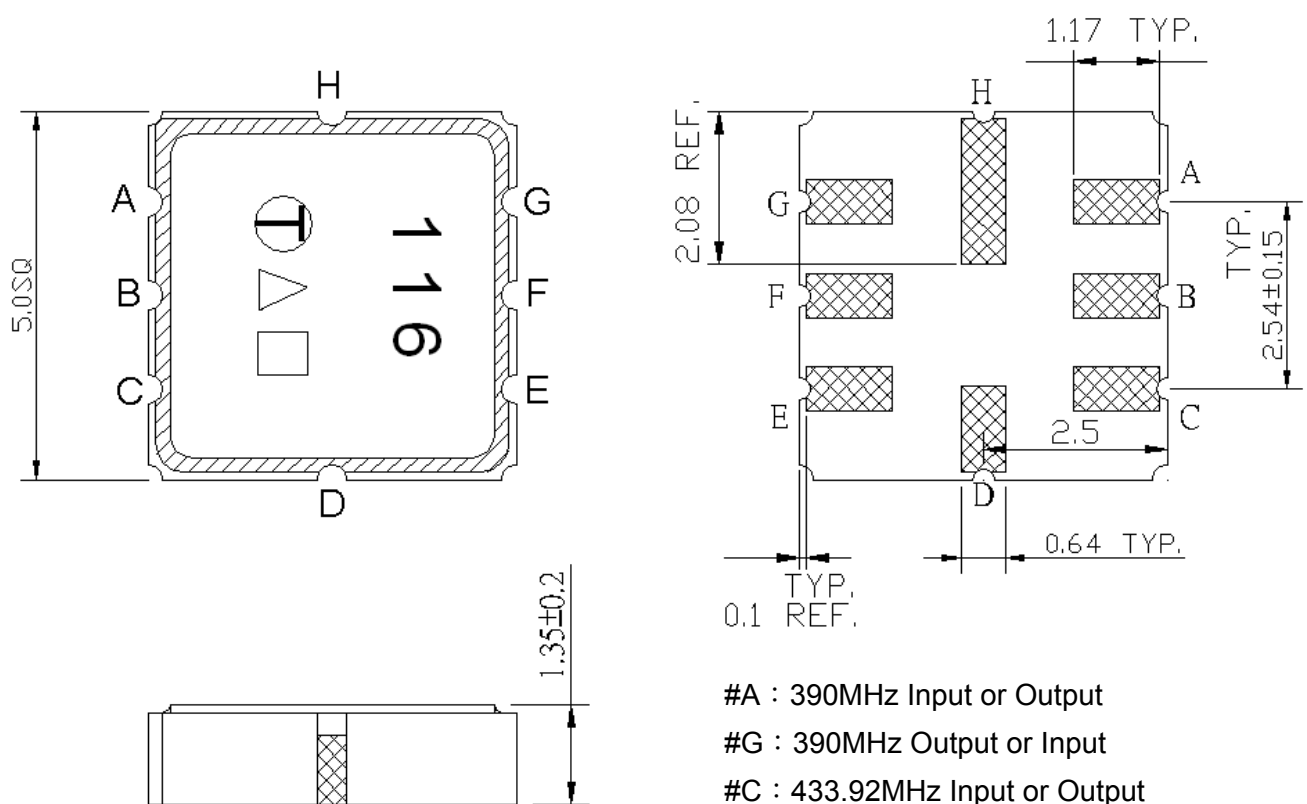
Characteristic	Units	Minimum	Typical	Maximum
Center frequency Fr	MHz	433.82	433.92	434.02
Insertion Loss IL	dB	-	2.20	2.8
Equivalent Elements				
Motional capacitance C1	fF	-	1.41	-
Motional inductance L1	μH	-	95.40	-
Motional resistance R1	Ohm	-	26.95	-
Parallel capacitance Co	pF	-	2.89	-
Temp.coeff.	ppm/C ²	-	0.032	-
Turnover To	deg.C	-	25	-
Package size		SMD 5.0X5.0X1.4mm		

D. EQUIVALENT CIRCUIT:

One-Port Resonator:



E. OUTLINE DRAWING:



#A : 390MHz Input or Output
 #G : 390MHz Output or Input
 #C : 433.92MHz Input or Output
 #E : 433.92MHz Output or Input
 #B,D,F,H : Ground
 $\triangle$: Product / Year Code
 $\square$: Week Code
 Unit : mm

Product / Year Code

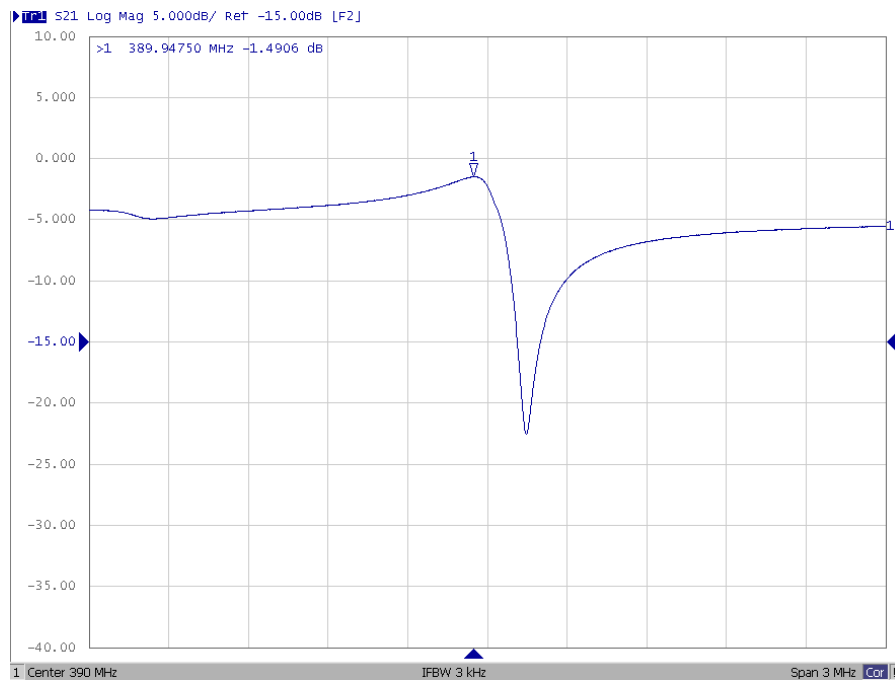
Year	2013 2017	2014 2018	2015 2019	2016 2020
Product Code	E	e	<u>E</u>	<u>e</u>

Week Code

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

F. FREQUENCY CHARACTERISTICS

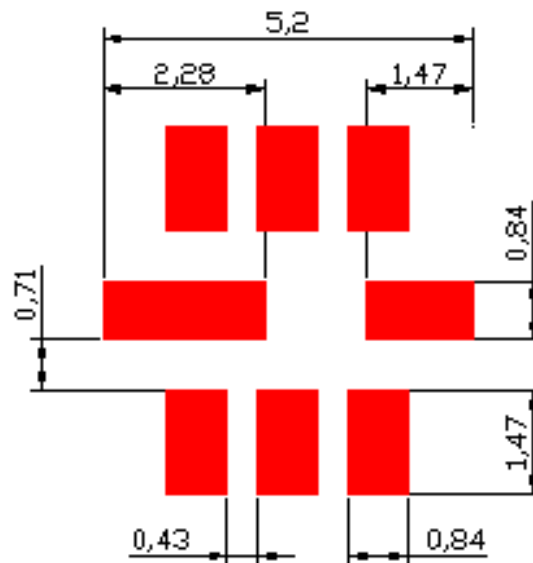
390MHz



433.92MHz



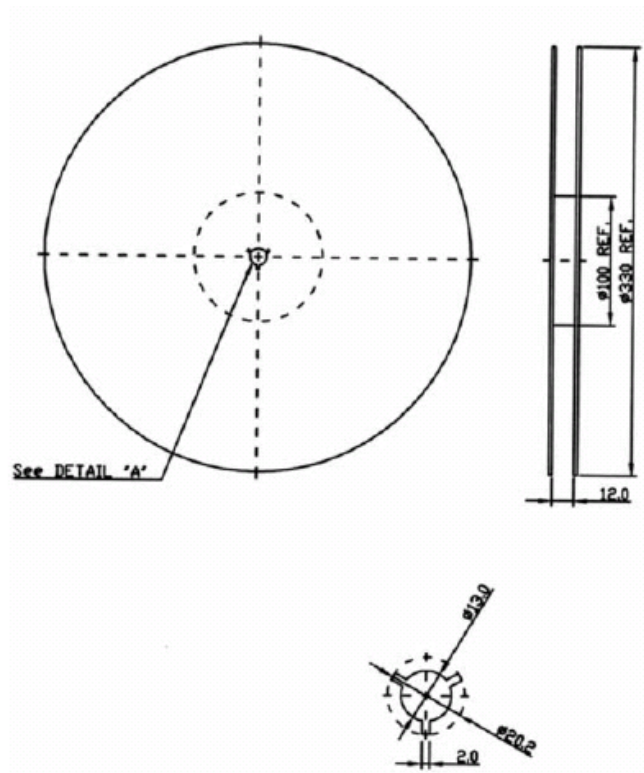
G. PCB FOOTPRINT:



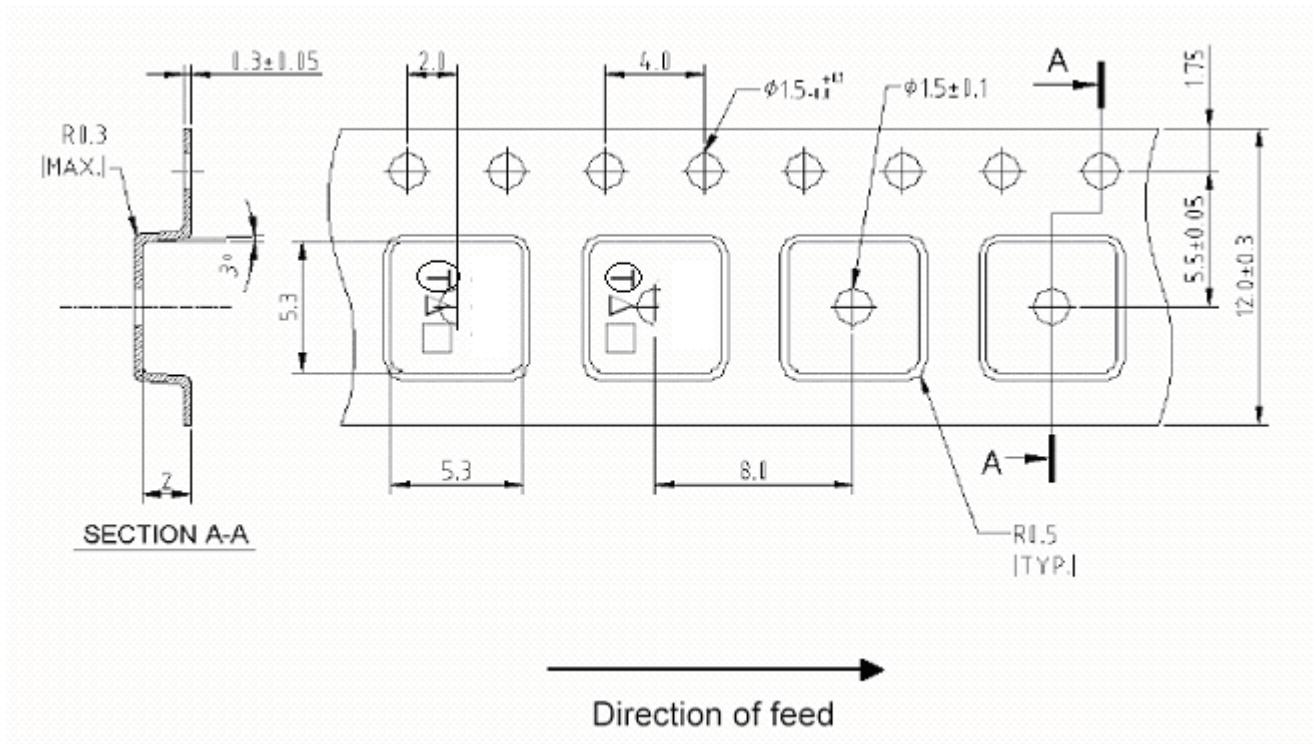
G. PACKING:

1. REEL DIMENSION:

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

