

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

Product Specifications Approval Sheet

Р	roduct Description:	500 MHz SMD 5.0	x 3.5 mm SAW	Resonator
Т	ST Parts No.: TC06	32A		
C	ustomer Parts No.:			
	Customer signature re	equired		
	Company:			_
	Division:			_
	Approved by :			-
	Date:			
L				
Checked	d by:	Sam Lin	Jandin Andy Ja	
Approva	ıl by:	Andy Yu	Andy In	
Date:		2019/08/05		

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.

shall be released to reflect the changes.

3. Any specifications changes must be approved upon by both parties and a new revision of specifications



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 500 MHz

MODEL NO.: TC0632A REV. NO.:4.0

A. FEATURES:

1.1-Port Resonator.

B. MAXIMUM RATING:

1. Input Power Level: 10 dBm

2. DC voltage: 12 V

3. Operating Temperature: -40°C to +85°C 4. Storage Temperature: -40°C to +85°C

5. Moisture Sensitivity Level: Level 1 (MSL1)

C. <u>ELECTRICAL CHARACTERISTICS:</u>

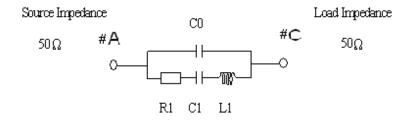
Reference Temperature T_A=25°C

Characteristic	Units	Minimum	Typical	Maximum		
Center frequency Fc	MHz	499.965	500	500.035		
Insertion Loss IL	dB	-	1.3	2.0		
Unload quality factor Qu		-	14000	-		
Motional capacitance C1	fF	-	1.68	-		
Motional inductance L1	μ H	-	60.24	-		
Motional resistance R1	Ohm	-	13.58	-		
Parallel capacitance Co	pF	-	2.96	-		
Frequency Temperature coefficient (TC _f)	ppm/c*2	-	0.032	-		
Turnover To	deg.C	25	40	55		
Package size		SMD 5.0X3.5X1.5mm				

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

D.EQUVIRENT CIRCUIT:

One-Port Resonator:



TAI-SAW TECHNOLOGY CO., LTD.

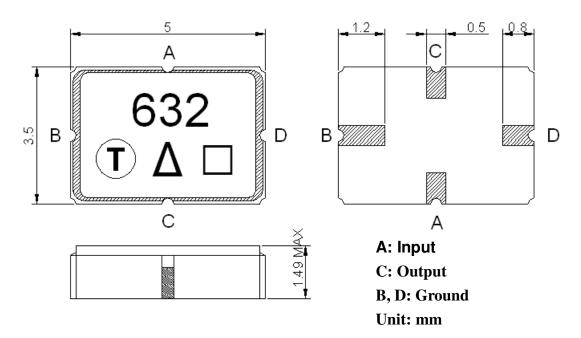
TST DCC Release document

RoHS Compliant

Lead free ead-free soldering

Electrostatic Sensitive Device

E.OUTLINE DRAWING:

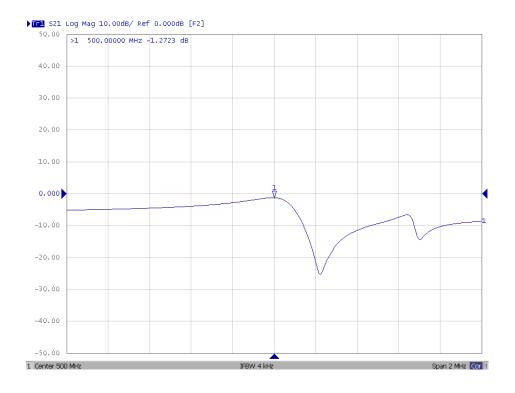


Δ Year Code: For odd year "C" for even year "c"

□ Week Code: Follow below table.

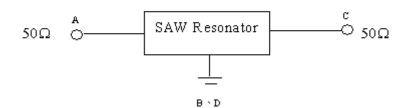
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	В	С	D	Е	F	G	Н	I	J	K	L	М
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	0	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	С	d	е	f	g	h	i	j	k	1	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52

F.FREQUENCY CHARACTERISTICS:

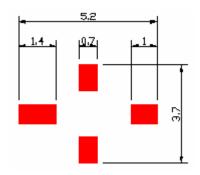


G. TEST CIRCUIT:

Network analyzer



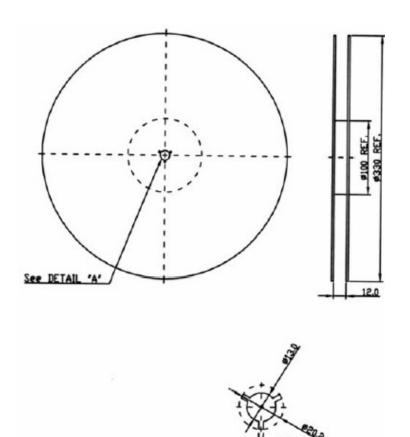
H.PCB FOOTPRINT:



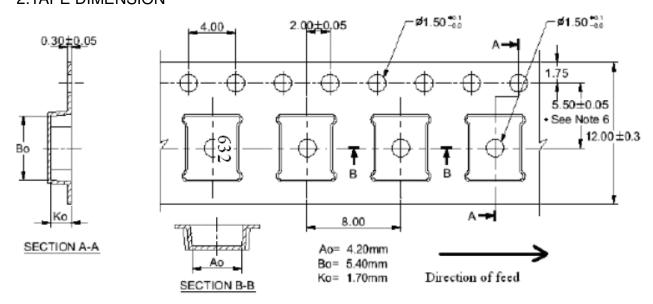
I. PACKING:

1.REEL DIMENSION

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



2.TAPE DIMENSION



J. RECOMMENDED REFLOW PROFILE:

- 1. Preheating shall be fixed at $150\sim180^{\circ}$ C for $60\sim90$ seconds.
- 2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
- 3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C+0/-5°C peak (20~40sec).
- 4. Time: 2 times.

