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

Pro	oduct Desc	cription: STW Resonator	r 1000 MHz SMD 3.8X3.8 mm
TS	ST Part No.	: TD0129A	
Cu	ıstomer Pa	rt No.:	
	Customer sign	gnature required	
	Company:		
	Division:_		
	Approved	by :	
	Date:		
Checked	by:	Hongpu Lin	Hong Pu Lin
Approved	l by:	Andy Yu	Hong Pu Lin Andy Yn
Date:		2020/07/22	

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.



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

STW Resonator 1000 MHz

MODEL NO.: TD0129A REV. NO.: 2.0

A. FEATURES:

1. Two-Port Resonator.

B. MAXIMUM RATING:

1. Input Power Level: 10 dBm

2. 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)

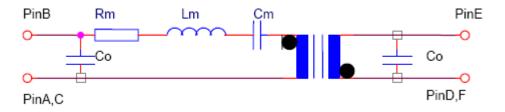
C. ELECTRICAL CHARACTERISTICS:

Reference Temperature T_A=25°C

Characteristic	Units	Minimum	Typical	Maximum		
Center frequency Fr	MHz	999.800	1000	1000.200		
Insertion Loss IL	dB	- 6		8		
Unloaded Quality factor		-	4700	-		
Ageing of Fc	ppm	-	-	10/year		
Rejection						
990 MHz ~ 999MHz		18 23				
1001 MHz ~ 1010MHz		18 23				
Motional capacitance C1	fF	-	0.36	-		
Motional inductance L1	μH	-	70	-		
Motional resistance R1	Ohm	-	127	-		
Parallel capacitance Co	pF	-	2.3	-		
Temp.coeff.	ppm/c*2	-	0.05	-		
Turnover To	deg.C	10 25		40		
Package size		SMD 3.8X3.8X1.5mm				

D. <u>EQUIVALENT CIRCUIT:</u>

Two-Port Resonator:

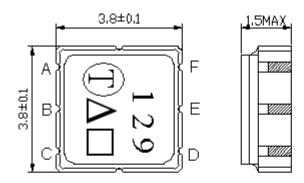


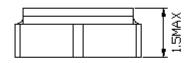
RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

E.OUTLINE DRAWING:

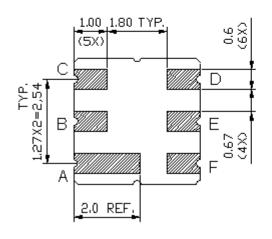




#B: Input or Output #E: Output or Input

#A · C · D · F : Ground

∆ : Year Code □ : Data Code



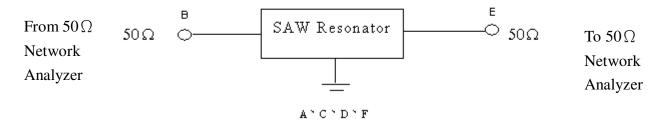
Year	2019 2021	2020 2022		
Year Code	D	d		

Data Code Table

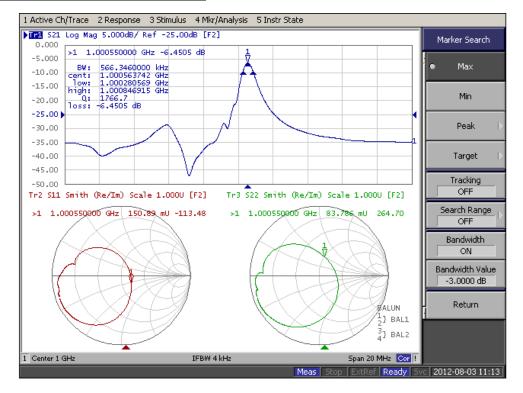
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	В	С	D	E	F	G	Н	I	J	K	L	М
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	0	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	С	d	е	f	g	h	i	j	k	I	m
WK40	WK41	WK42	WK43	WK44	WK45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

F. TEST CIRCUIT:

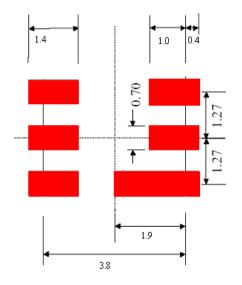
Network analyzer



G.FREQUENCY CHARACTERISTICS:



H.PCB FOOTPRINT

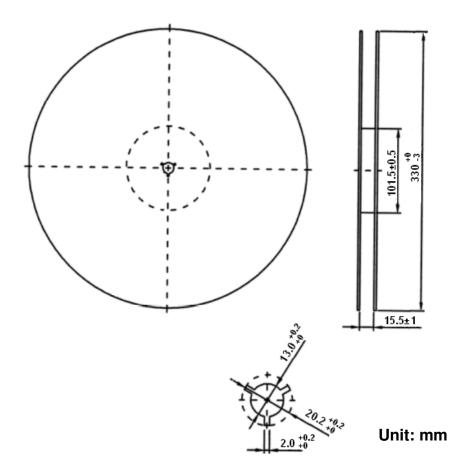


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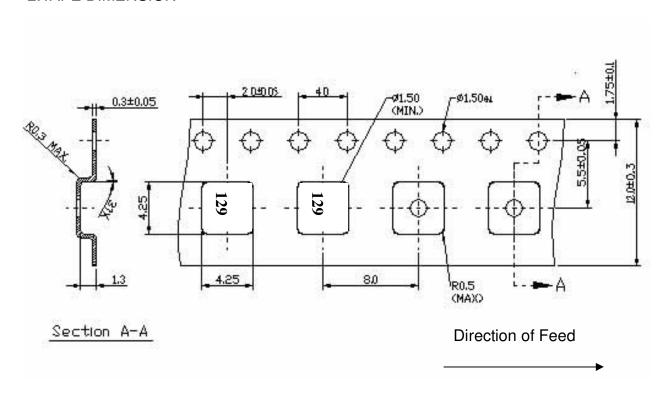
TST DCCRelease document

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 150~180°C for 60~90 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.

