

Product Specifications Approval Sheet

Product Description: Tow-Port SAW Resonator 1030MHz SMD7X9

TST Parts No.: TD1030EE-B

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Hongpu Lin *Hong Pu Lin*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/07/29

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.

SAW Resonator 1030.0 MHz

MODEL NO.: TD1030EE-B

REV. NO.:4

A. FEATURES:

1. 2-Port Resonator.

B. MAXIMUM RATING:

1. Power Dissipation: +3 dBm.
2. DC voltage: 30 V.
3. Storage Temperature: -55 °C to 125 °C.
4. Operating Temperature:-55 °C to 105 °C
5. Moisture Sensitivity Level: Level 1(MSL1)

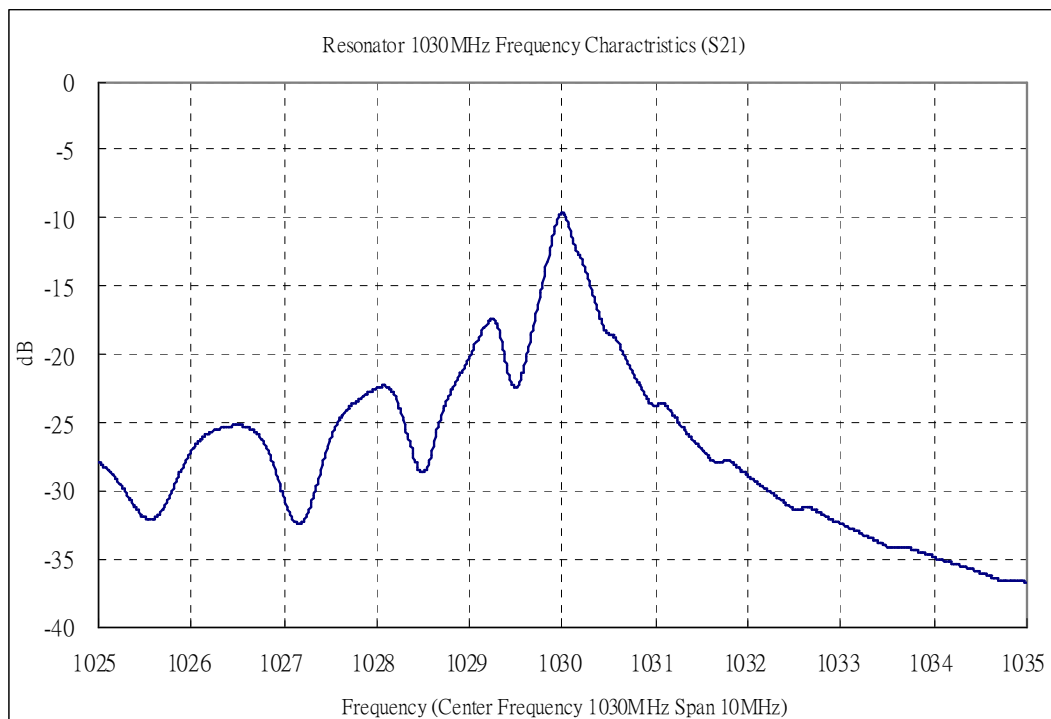
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

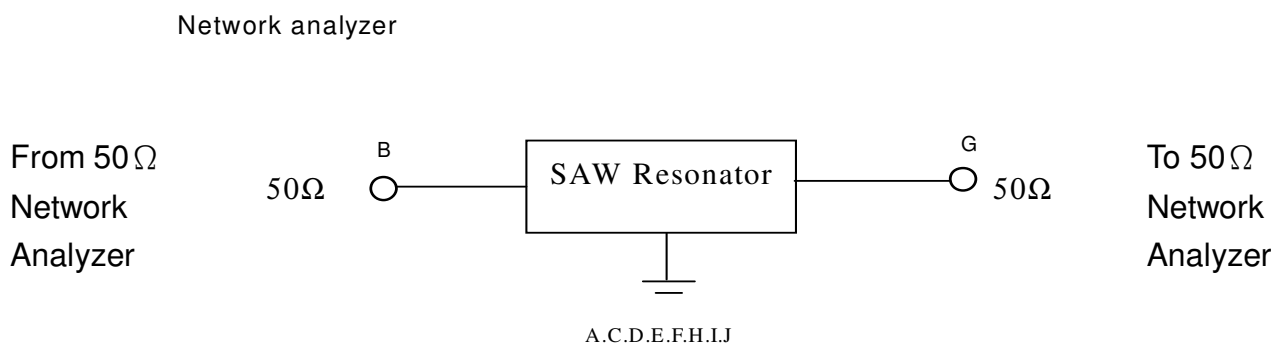
C. ELECTRICAL CHARACTERISTICS:

Characteristic	Units	Minimum	Typical	Maximum
Center frequency Fr	MHz	1029.800	1030	1030.200
Insertion Loss IL	dB	-	10	12.5
Unloaded Quality factor		-	6000	-
Ageing of Fc	ppm	-	-	10/year
Equivalent Elements				
Motional capacitance C1	fF	-	0.16	-
Motional inductance L1	μH	-	150	-
Motional resistance R1	Ohm	-	215	322
Parallel capacitance Co	pF	-	1.2	-
Temp.coeff.	ppm/c*2	-	0.032	-
Turnover To	deg.C	12	32	52
Package size		SMD7.1X9.1X2.2mm		

D. FREQUENCY CHARACTERISTICS:

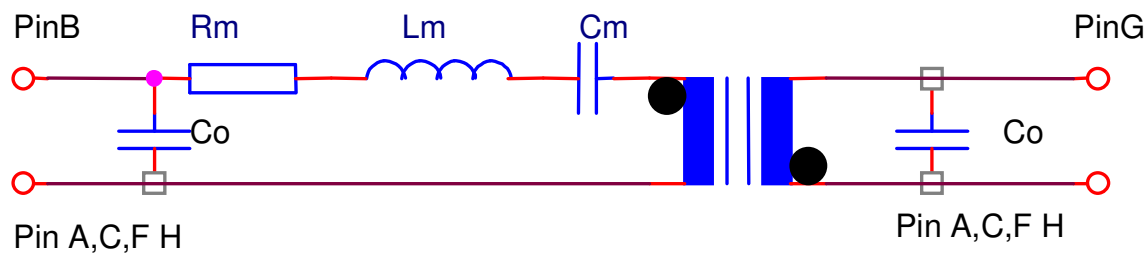


E. TEST CIRCUIT:

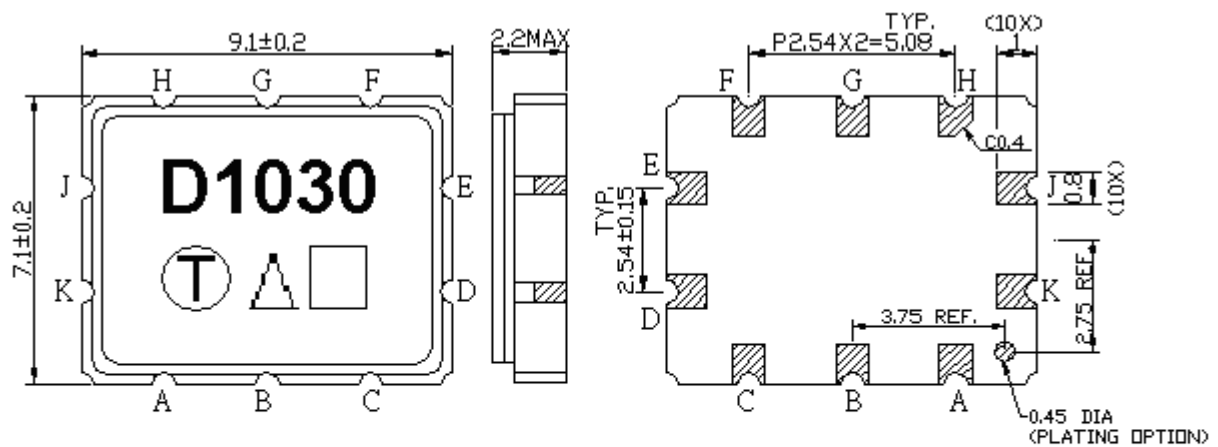


F. EQUVIRENT CIRCUIT:

Two-Port Resonator:



G .OUTLIN DRAWING:



#B : Input or Output
#G : Output or Input
#A、C、D、E、F、H、J、K : Ground
□ : Date code
△ : Year code
Unit : mm

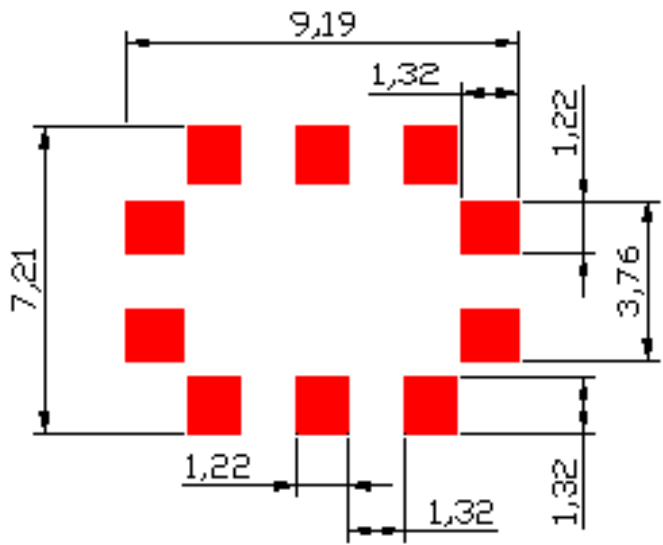
Product / Year Code- 4year cycle

Year	2017 2021	2018 2022	2019 2023	2020 2024
Product Code	E	e	<u>E</u>	<u>e</u>

Week Code Table

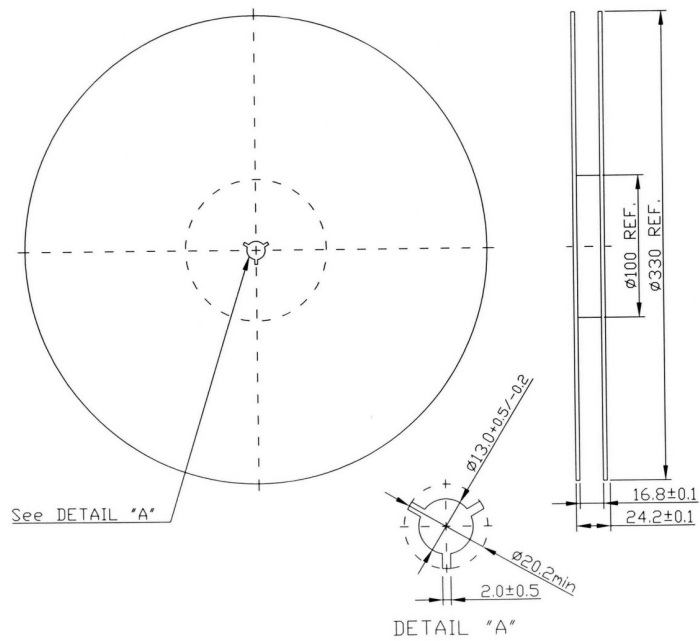
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

H. PCB FOOTPRINT:

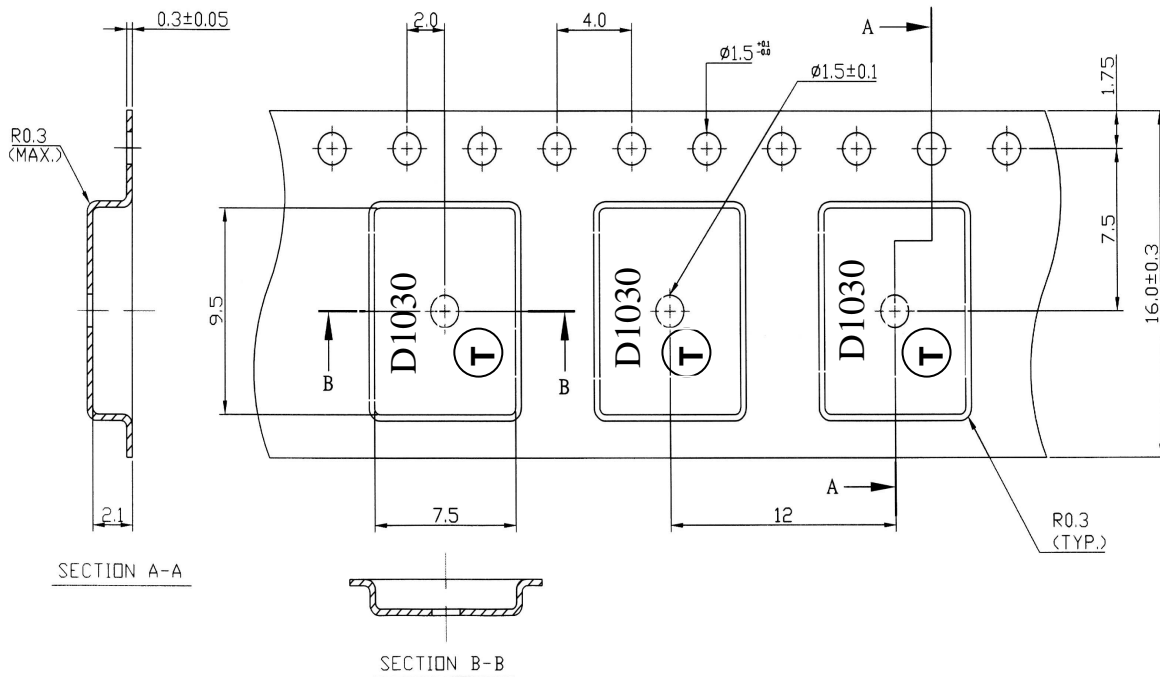


I. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



G. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at $150 \sim 180^{\circ}\text{C}$ 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 $260^{\circ}\text{C} + 0/-5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.

