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Product Specifications Approval Sheet

Product Description: Crystal Unit SMD 2.0x1.6 39.0MHz

TST Part No.: TZ3541C

Customer Part No.:_____

Customer signature rec	quired	
Company:		
Division:		
Approved by :		
Date:		
Checked by:	Chia Haur Rau	CH
Approved by:		Kuly Juang
Date:	01/20/2020	

- 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.

TST DCC Release document

TAI-SAW TECHNOLOGY CO., LTD. Crystal Unit SMD 2.0x1.6 39.0MHz

MODEL NO.: TZ3541C

REV. NO.: 1

Revise:

Rev.	Rev. Page	Rev. Account	Date	Ref. No.	Revised by
Rev. 1	Rev. Page N/A	Rev. Account Initial release	Date 01/20/20'	Ref. No. N/A	Revised by Chia Haur Rau

TST DCC Release document

TAI-SAW TECHNOLOGY CO., LTD. Crystal Unit SMD 2.0x1.6 39.0MHz

MODEL NO.: TZ3541C

REV. NO.: 1

Features:

- Surface Mount Hermetic Package
- Excellent Reliability Performance
- Good Frequency Perturbation and Stability over temperature
- Ultra Miniature Package
- Moisture Sensitivity Level (MSL) : Level-1

Description and Applications:

Surface mount 2.0mmx1.6mm crystal unit for use in wireless communications devices, especially for a need of ultra miniature package for mobility.

Electrical Specifications:

TZ3541C	Specification
Nominal Frequency	39.000000 MHz
Mode of Oscillation	Fundamental
Storage Temperature Range	-40°C to +125°C
Operating Temperature Range	-40°C to +125°C
Frequency Stability over Operating Temperature Range	+/-30 ppm (referred to the value at 25°C)
Frequency Make Tolerance (FL)	+/-8 ppm @ 25°C +/- 3°C
Equivalent Series Resistance (ESR)	35 Ω max
Nominal Drive Level	50uW typical and 100uW max
Shunt Capacitance (Co)	2.0 pF max
Load Capacitance (CL)	10 pF
Aging	+/-3ppm/5year
Insulation Resistance	500 MΩ min./DC 100V
Marking	Laser Marking
Unit Weight	5.7mg+/-0.5mg

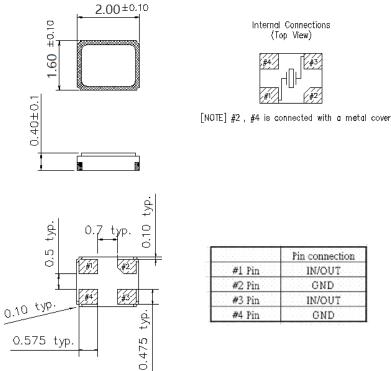
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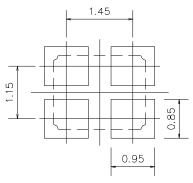
TST DCC Release document



Mechanical Dimensions (mm): Base



Recommended Land Pattern: (unit: mm)



Recommended Land Pattren

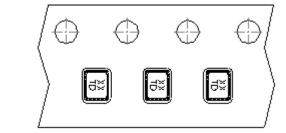
Marking:

#4 #3

#1 #2

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Line 1: XX; Frequency (39) Line 2: T; Traceable Code + D; date Code of Year/Month



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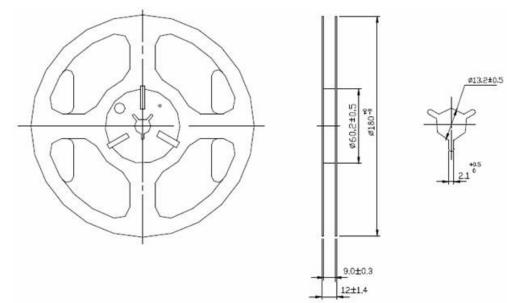
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Date Code Table: Year/Month

Year/Month	1	2	3	4	5	6	7	8	9	10	11	12
2009	n	р	q	r	s	t	u	v	w	х	у	z
2010	А	В	С	D	Е	F	G	Н	J	К	L	М
2011	Ν	Ρ	Q	R	S	Т	U	V	W	Х	Y	Z
2012	а	b	с	d	е	f	g	h	i	j	k	m
2013	n	р	q	r	s	t	u	v	w	x	у	z
2014	А	В	С	D	Е	F	G	Н	J	К	L	М
2015	Ν	Ρ	Q	R	S	Т	U	V	W	Х	Y	Z
2016	а	b	с	d	е	f	g	h	i	j	k	m
2017	n	р	q	r	s	t	u	v	w	x	у	z
2018	А	В	С	D	Е	F	G	н	J	К	L	М
2019	Ν	Ρ	Q	R	S	Т	U	V	W	Х	Y	Z
2020	а	b	С	d	е	f	g	h	i	j	k	m
2021	n	р	q	r	s	t	u	v	w	х	у	z

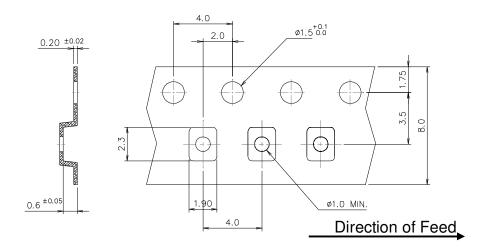
Reel Dimensions (mm):



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Tape Dimensions (mm):

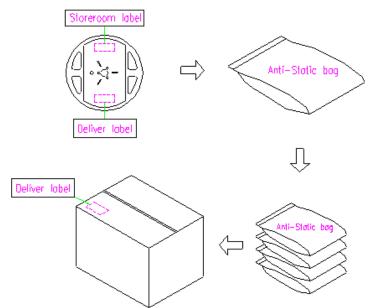


[NOTE]:

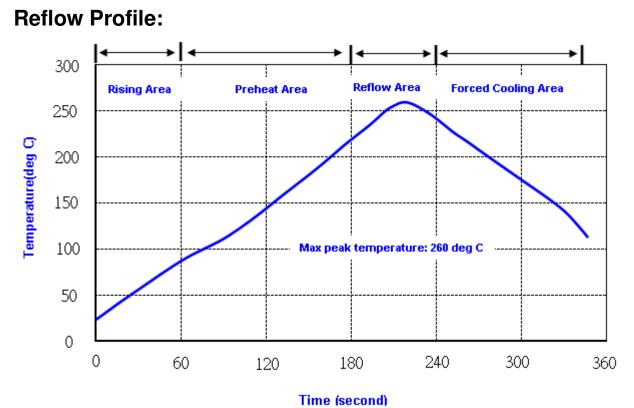
- 1. Unless otherwise specified tolerance on dimension +/-0.1 mm.
- 2. Material: conductive polystyrene with color black.
- 3. 10 pitch cumulative tolerance +/-0.2 mm.

Packing Quantity/Packing:

3K pcs maximum per reel



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Note: 1.Max peak temperature: 260+/-5 deg C; Time: 10+/-2 sec 2. Temperature: 217+/-5 deg C; Time: 90~100 sec

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Reliability Specifications

Test name	Test process / method	Reference standard						
Mechanical characteristics								
resistance to Soldering heat (IR reflow)	Temp/ Duration : 265°C /10sec ×2 times Total time : 4min.(IR-reflow)	EIAJED-4701 -300(301)M(II)						
Vibration	Total peak amplitude : 1.5mmVibration frequency: 10 to 2000 HzSweep period: 20 minuteVibration directions: 3 mutually perpendicularDuration: 2 hr / direc.	MIL-STD 202G method 204						
Mechanical Shock	directions : 3 impacts per axis Acceleration : 3000g's, +20/-0 % Duration : 0.3 ms (total 18 shocks) Waveform : Half-sine	MIL-STD 202G method 213						
Solderability	Solder Temperature:265±5 ℃ Duration time: 5±0.5 seconds.	J-STD-002						
Environmental	Environmental characteristics							
Thermal Shock	Heat cycle conditions -40 °C (30min) ←→ 85 °C (30min) * cycle time : 10 times	MIL-STD 883G method 1010.8						
Humidity test	Temperature : 85 ± 2 ℃ Relative humidity : 85% Duration : 96 hours	MIL-STD 202G method 103						
Dry heat	Temperature : 125 ± 2 ℃	MIL-STD 202G						
(Aging test)	Duration : 168 hours	method 108A						
Cold resistance (Low Temp Storage)	Temperature :-40 ± 2 ℃ Duration : 96 hours	IEC 60068-2-1						

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单击下面可查看定价,库存,交付和生命周期等信息

>>TAI-SAW(台湾嘉硕)