# TXC TXC CORPORATION

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# **SPECIFICATION FOR APPROVAL**

CUSTOMER	:	
PRODUCT TYPE	:	SMD XTAL 2.0 × 1.6
NOMINAL FREQ.	:	26.00000MHz
TXC P/N	:	8Y26000004
REVISION	:	S2
CUSTOMER P/N	:	
PM / SALES	:	
DATE	:	
CUSTOMER SIGN		RE & Date

(1) TXC requires one copy returned with signature and title of authorized individual that signifies acceptance of the attached specifications.

- (2) Orders received and accepted by TXC after return of signed copy of specification will be produced per these specifications.
- (3) Any changes to these specifications must be agreed upon by both parties and new revision of the Product Specification Sheet will be issued.
- (4) Any issuance of purchase order prior to consigning back the Approval page of "Specification Sheets" from customers will be regarded as the agreement on the contents of these specifications.

Attachment: Product Specification Sheet

- 1
- 2
- 3
- 4
- -<del>1</del> 5

# RoHS Compliant



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# **PRODUCT SPECIFICATION SHEET**

# PRODUCT TYPE

: SMD XTAL 2.0 × 1.6

NOMINAL FREQ.

26.000000MHz

TXC P/N

REVISION

8Y26000004

S2

:

PE/RD	QA	MFG
Dobin Iduang Robin Huang		
18-Jun-20		

## NOTE:

(1)The green product standard set by TXC is based upon the international standards. Related information is publicly described on the TXC's Website, and updated regularly. The document is compliant with the latest green product quality system directives at the time.

(2)Revision "Sx" is for engineering samples only. PE/RD's approval required.

(3)Revision "Ax" is production ready. PE, QA and MFG's approval required

# **RoHS Compliant**



PAGE: 1

<u>Rev</u>	<u>Revise page</u>	Revise contents	<u>Date</u>	Ref.No.	Reviser
S1	N/A	Initial released	2-Dec-13	N/A	Yachuan Miao
S2	2	Aging±1ppm/1st Year Change To± 2ppm/1st Year	18-Jun-20	PNR20061601	Xiaoyan Jiang

#### ■ ELECTRICAL SPECIFICATIONS

#### Standard atmospheric conditions

Unless otherwise specified, the standard range of atmospheric conditions for making measurement

and tests are as follow:

If there is any doubt about the results, measurement shall be made within the following limits:

Ambient temperature	:	<b>25±3</b> ℃
Relative humidity	:	40%~70%

#### Measure equipment

Electrical characteristics measured by S&A 250B or equivalent.

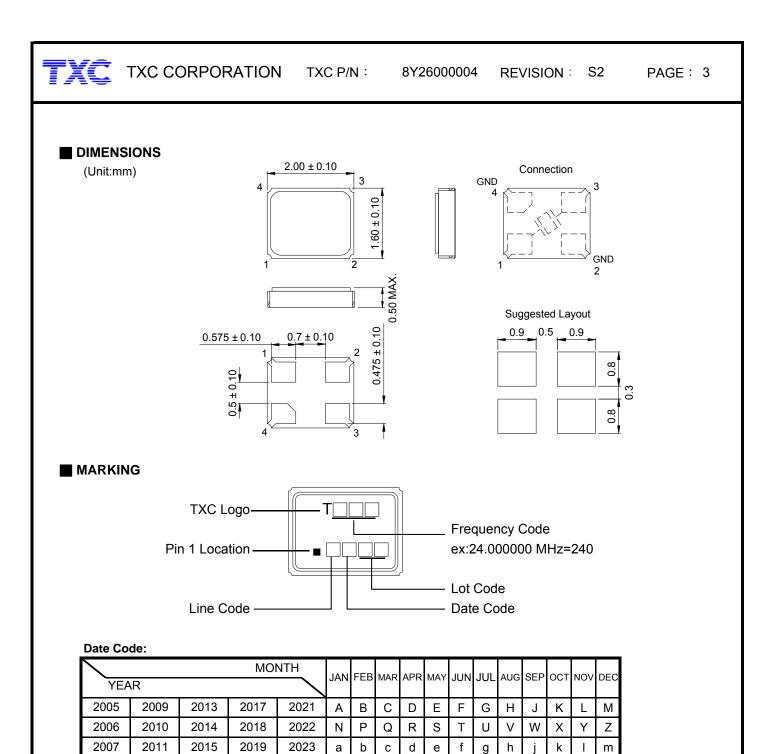
#### Crystal cutting type

The crystal is using AT CUT (thickness shear mode).

#### **Unit Weight:**

0.005±0.002 g/pcs

	Parameters	Symbol		Electric	al Spec.		Notes
	Farameters	Symbol	Min.	Тур.	Max.	Units	NOLES
1	Nominal Frequency	FL	2	26.00000	)	MHz	-
2	Oscillation Mode	-	Fundamental		-	-	
3	Load Capacitance	CL		7.5		pF	-
4	Frequency Tolerance	-		±10		ppm	at 25 ℃ ± 3 ℃
5	Frequency Tolerance	-		±10		ppm	Over Operating Temp. Range (Reference $25^{\circ}$ C )
6	Operating Temperature	-	-20	~	75	°C	-
7	Aging	-		±2		ppm	1st Year
8	Drive Level	DL	-	100	-	uW	-
9	Equivalent Series Resistance	Rr	-	-	80	Ω	-
10	Shunt Capacitance C0	C0	-	0.5	-	pF	-
11	Motional Capacitance C1	C1	-	1.9	-	fF	-
12	Insulation Resistance	-	500	-	-	MΩ	at DC 100V
13	Storage Temperature Range	-	-40	~	85	°C	-



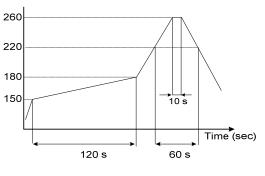
					-	-	-	-
2008	2012	2016	2020	2024	n	р	q	r

\*This date code will be cycled every four years

#### Production Location:Taiwan, China(Ningbo), China(Chungking). Temp. (1)

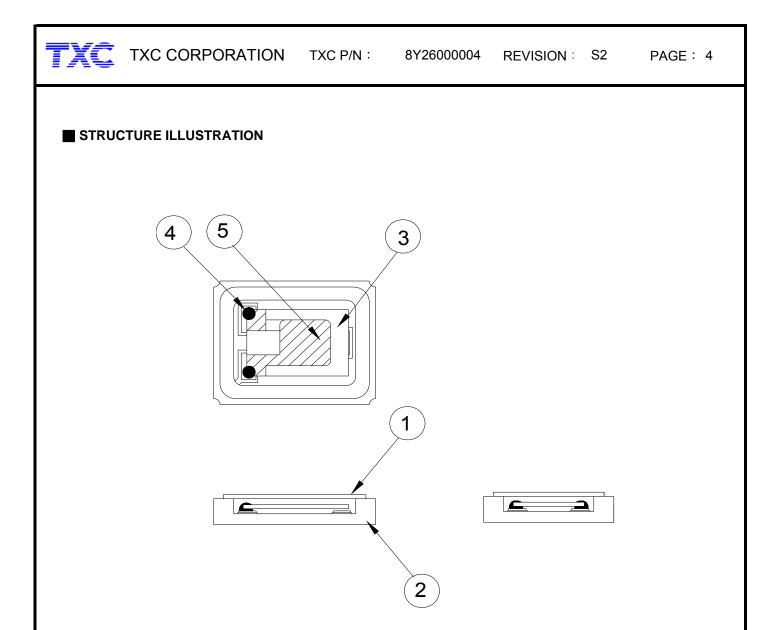
### SUGGESTED REFLOW PROFILE

Total time : 200 sec. Max. Solder melting point :220 $^{\circ}$ C



y z

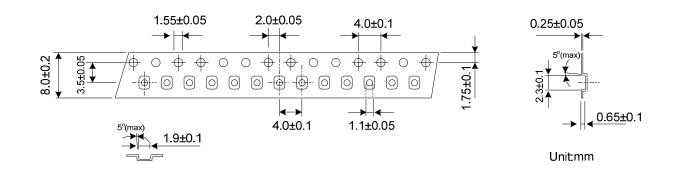
s t u v w x



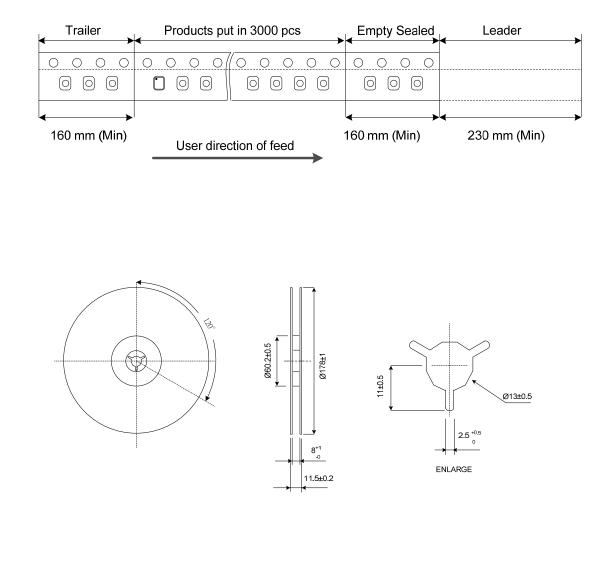
NO	COMPONENTS	MATERIALS	FINISH/SPECIFICATIONS
1	Lid	Kovar	-
2	Base(Package)	Ceramic (Al <sub>2</sub> O <sub>3</sub> )+Pad(Au)	Alumina ceramics
3	Crystal blank	SiO2	-
4	Conductive adhesive	Ag	Silicone resin
5	Electrode	Noble Metal + Cr	-

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## PACKING



#### **REMARK** :





### ■ RELIABILITY SPECIFICATIONS

#### 1.Mechanical Endurance

No.	Test Item	Test Me	ethods	REF.DOC		
1.1	Drop Test	150 cm height, 3 times on concrete floor.		JIS C6701		
1.2	Mechanical Shock	Device are shocked to half sine wa	Device are shocked to half sine wave ( 1000 G ) three mutually			
		perpendicular axes each 3 times. 0	.5m sec. duration time	MIL-STD-202		
		Frequency range	10 ~ 2000 Hz			
		Amplitude	1.52 mm/20G			
1.3	Vibration	Sweep time	20 minutes	MIL-STD-883		
		perpendicular axes each test time	4 Hrs			
			(Total test time 12 Hrs)			
1.4	Gross Leak	Standard Sample For Automatic Gross Leak Detector, Test Pressure: 2kg / cm <sup>2</sup>		MIL-STD-883		
1.5	Fine Leak	Helium Bombing 4.5 kg/ cm <sup>2</sup> for 2 Hrs		MIL-51D-665		
		Temperature	245 °C ± 5°C			
		Immersing depth	0.5 mm minimum			
1.6	Solder ability	Immersion time	5 ± 1 seconds	MIL-STD-883		
		Flux	Rosin resin methyl alcohol			
			solvent (1:4)			

## 2.Environmental Endurance

No.	Test Item	Test Methods	REF. DOC
2.1	Resistance To Soldering Heat	Pre-heat temperature $125 ^{\circ}\text{C}$ Pre-heat time $60 \sim 120  \text{sec.}$ Test temperature $260 \pm 5 ^{\circ}\text{C}$ Test time $10 \pm 1  \text{sec.}$	MIL-STD-202
2.2	High Temp. Storage	+ 125 °C ± 3 °C for 500 ± 12 Hrs	MIL-STD-883
2.3	Low Temp. Storage	- 40 °C ± 3 °C for 500 ± 12 Hrs	WIIL-01D-005
2.4	Thermal Shock	Total 100 cycles of the following temperature cycle $125 \pm 3^{\circ}C$ $25^{\circ}C$ $-55 \pm 3^{\circ}C$ $30 \text{ min.}$ $30 \text{ min.}$ $10 \text{ min. max.}$	MIL-STD-883
2.5	High Temp & Humidity	85°C ± 3°C, RH 85% , 500 Hrs	EIA-JESD22