SPECIFICATION FOR APPROVAL

CUSTOMER	:	
PRODUCT TYPE	:	SMD SEAM SEALING X'TAL 2.0 × 1.6
NOMINAL FREQ.	:	26.00000MHz
TXC P/N	:	8Y26000050
REVISION	:	S1
CUSTOMER P/N	:	
PM / SALES	:	
DATE	:	
CUSTOMER SIGNA	ATL	JRE & Date
of the attached specifications. (2) Orders received and accepted these specifications.	у ТХ(signature and title of authorized individual that signifies acceptance C after return of signed copy of specification will be produced per ns must be agreed upon by both parties and new revision of the
Product Specification Sheet wi		
•		rior to consigning back the Approval page of "Specification Sheets" the agreement on the contents of these specifications.
Attachment: Product Specification	Shee	t
1		
2		
3		MSL:Level 1
4		

5

RoHS Compliant

www.txccorp.com

PRODUCT SPECIFICATION SHEET

PRODUCT TYPE : SMD SEAM SEALING X'TAL 2.0 × 1.6

NOMINAL FREQ. : 26.000000MHz

TXC P/N : 8Y26000050

REVISION : S1

PE/RD	QA	MFG
Dobin Huang Robin Huang		
6-Dec-18		

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

MSL:Level 1
RoHS Compliant



TXC TXC CORPORATION TXC P/N:

8Y26000050

REVISION: S1

PAGE: 1

<u>Rev</u>	Revise page	Revise contents	<u>Date</u>	Ref.No.	<u>Reviser</u>
S1	N/A	Initial released	6-Dec-18	N/A	Xiaoyan Jiang

TXC P/N: 8Y26000050 REVISION: S1 PAGE: 2

Spec Sheet Contents

No.	Content	Page
1	ELECTRICAL SPECIFICATIONS	P.3
2	DIMENSIONS	P.4
3	MARKING	P.4
4	FACTORY LOCATION	P.4
5	SUGGESTED REFLOW PROFILE& MANUAL SOLDER CONDITION	P.4
6	STRUCTURE ILLUSTRATION	P.5
7	EMBOSS CARRIER TAPE & REEL	P.6
8	PACKING	P.7
9	RELIABILITY SPECIFICATIONS&HANDING CAUTIONS	P.8~9

TXC TXC CORPORATION TXC P/N : 8Y26000050 PAGE: 3 REVISION: S1

■ ELECTRICAL SPECIFICATIONS

Standard atmospheric conditions

Unless otherwise specified, the standard range of atmospheric conditions for making measurement and tests are as follow:

Ambient temperature : 25±10°C Relative humidity 40%~70%

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

Ambient temperature : **25±3**℃ Relative humidity : 40%~70%

Measure equipment

Electrical characteristics measured by S&A250B or equivalent.

Crystal cutting type

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

Unit Weight:

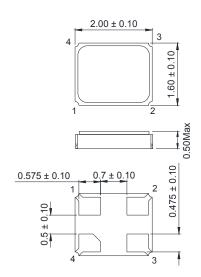
0.005±0.002 g/pcs

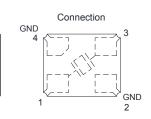
	Parameters	Symbol		Electric	al Spec.		Notes
	Farameters	Symbol	Min.	Тур.	Max.	Units	Notes
1	Nominal Frequency	FL	2	26.00000	0	MHz	-
2	Oscillation Mode	-	Fı	ındamen	tal	-	-
3	Load Capacitance	CL		6		pF	-
4	Frequency Tolerance	-		±10		ppm	at 25 ℃ ± 3 ℃
5	Frequency Stability	-		±10		ppm	Over Operating Temp. Range (Reference 25°C)
6	Operating Temperature	-	-30	~	85	$^{\circ}$ C	-
7	Aging	-		±3		ppm	1st Year
8	Drive Level	DL		100	-	uW	-
9	Equivalent Series Resistance	Rr	30	-	80	Ω	-
10	Shunt Capacitance C0	C0	-	0.55	2	pF	-
11	Pulling Sensitivity	TS	-	20	-	ppm/pF	-
12	Insulation Resistance	-	500	-	-	ΜΩ	at DC 100V
13	Storage Temperature Range	-	-40	~	125	$^{\circ}\!\mathbb{C}$	-

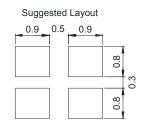
TXC CORPORATION TXC P/N: 8Y26000050 REVISION: S1 PAGE: 4

DIMENSIONS

(Unit:mm)

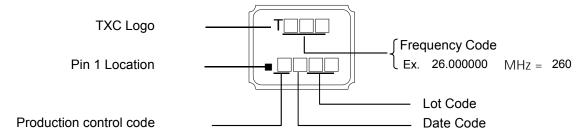






*Coplanarity of solderable areas Camber 0.05 mm Max

MARKING



Date Code:

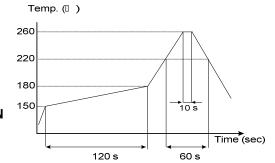
			MOI	NTH	JAN	FFB	MAR	APR	MAY	JUN	JUI	AUG	SEP	OCT	NOV	DEC
YEA	AR				o,			,		••••	002	, . . .	01.	00.		220
2005	2009	2013	2017	2021	Α	В	С	D	Е	F	G	Η	J	K	L	М
2006	2010	2014	2018	2022	N	Р	Q	R	S	Т	U	٧	W	Х	Υ	Ζ
2007	2011	2015	2019	2023	а	b	С	d	е	f	g	h	j	k	I	m
2008	2012	2016	2020	2024	n	р	q	r	s	t	u	٧	W	Х	у	Z

^{*}This date code will be cycled every four years

Production Location: Taiwan, China(Ningbo), China(Chungking)

■ SUGGESTED REFLOW PROFIL

Total time: 200 sec. Max. Solder melting point: 220 °(



■ SUGGESTED MANUAL SOLDER CONDITION

Temperature: 350 ± 10 °C

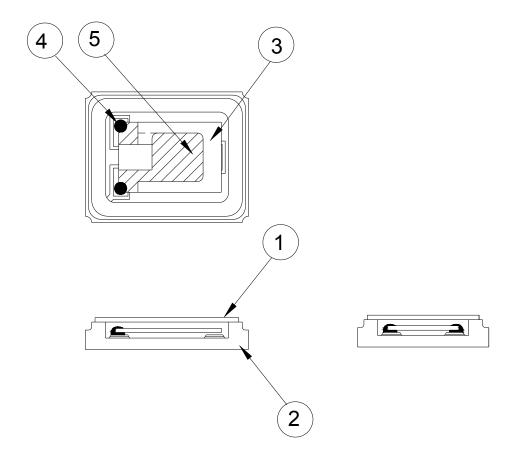
Time: 3 sec.

Re-solder times: twice



TXC CORPORATION TXC P/N: 8Y26000050 REVISION: S1 PAGE: 5

■ STRUCTURE ILLUSTRATION

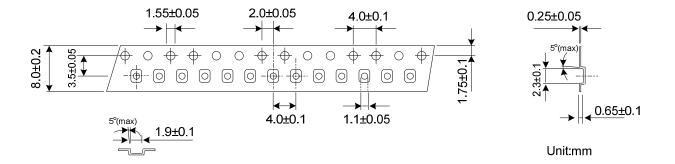


NO	COMPONENTS	MATERIALS	FINISH/SPECIFICATIONS
1	Lid	Kovar (Fe/Co/Ni)	-
2	Base(Package)	Ceramic (Al ₂ O ₃) + Kovar (Fe/Co/Ni)+Pad(Au)	Tungsten metalize + Ni plating + Au plating
3	Crystal blank	SiO ₂	-
4	Conductive adhesive	Resin+Ag	-
5	Electrode	Noble Metal	-

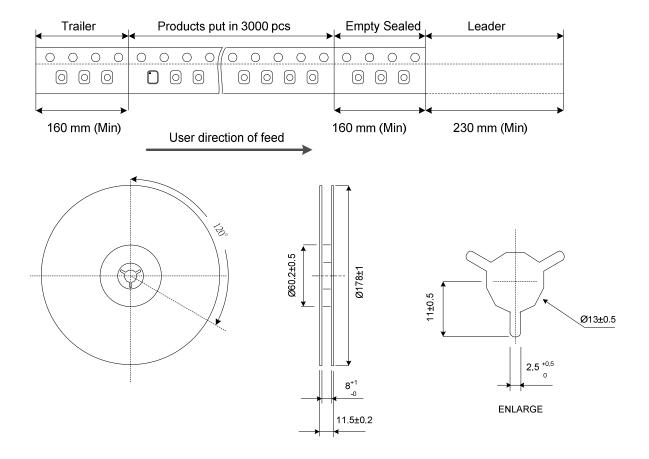


TXC CORPORATION TXC P/N: 8Y26000050 REVISION: S1 PAGE: 6

PACKING



REMARK:



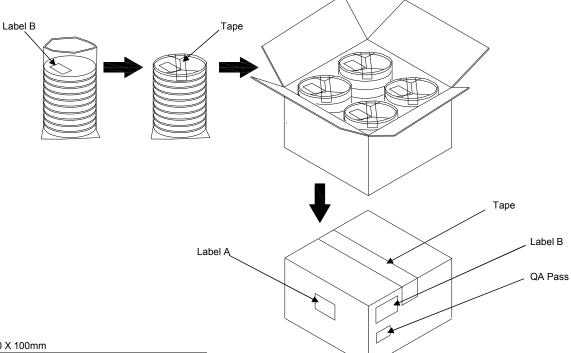
Standard Reel Quantity is 3,000 pcs per reel

TXC P/N: 8Y26000050 S1 REVISION: PAGE: 7

PACKING

Reel Quantity:

- 1. Reel X 6 (6 Reels)
- 2. Reel X 12 (12 Reels) 3. Reel X 25 (12 Reels + 13 Reels)
- 4. Reel X 50 (12 Reelsx2 + 13 Reelsx2)
- Box Size:
- 1. L200 X W200 X H140mm
- 2. L200 X W200 X H250mm
- 3. L400 X W200 X H250mm
- 4. L400 X W400 X H280mm



(Label A) Size:100 X 100mm

Inv No: 0000000

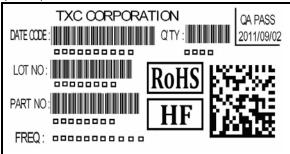
Po No: **DDDDDDD**

Part No:

Q'ty:

C/No: 0000

(Lable B) Size:80 X 40mm



[STORAGE]

- 1.Don't be caught in the rain.
- 2.The storage environment shall be 5 $^{\circ}$ C $^{\sim}$ 40 $^{\circ}$ C temperature and 30% $^{\sim}$ 75%RH humidity and free from the sun shine.
- 3.If customers have special requirements, we can paste labels according to it.



TXC TXC CORPORATION TXC P/N: 8Y26000050 REVISION: S1 PAGE: 8

■ RELIABILITY SPECIFICATIONS

1.Mechanical Endurance

No.	Test Item	Test Me	thods	Test Criteria	
1	Drop Test	150 cm height, 3 times on concrete	A.C		
1	Mechanical Shock	Device are shocked to half sine wa	ve (1000 G) three mutually	A . C	
'	Mechanical Shock	perpendicular axes each 3 times. 0	.5m sec. duration time	A. C	
		Frequency range	10 ~ 2000 Hz		
		Amplitude	1.52 mm/20G		
1	Vibration	Sweep time	20 minutes	A . C	
		perpendicular axes each test time	4 Hrs		
			(Total test time 12 Hrs)		
1	Gross Leak	Standard Sample For Automatic Gr Pressure: 2kg / cm²	F		
2	Fine Leak	Helium Bombing 4.5 kg/ cm ² for 2	Hrs	G	
		Temperature	240 °C ± 5°C		
		Immersing depth	0.5 mm minimum		
2	Solder ability	Immersion time	5 ± 1 seconds	E	
		Flux	Rosin resin methyl alcohol		
			solvent (1:4)		

2. Environmental Endurance

No.	Test Item	Test Methods	Test Criteria
2	Resistance To Soldering Heat	Pre-heat temperature $125 ^{\circ}\text{C}$ Pre-heat time $60 ^{\circ}$ 120 sec.Test temperature $260 \pm 5 ^{\circ}\text{C}$ Test time $10 \pm 1 \text{sec.}$	B.C.D
2	High Temp. Storage	+ 125 °C ± 3 °C for 500 ± 12 Hrs	B.C.D
2	Low Temp. Storage	- 40 °C ± 3 °C for 500 ± 12 Hrs	B. O. B
2	Temperature cycle	Total 100 cycles of the following temperature cycle $\begin{array}{c c} 1 & \text{cycle} \\ 125 \pm 3^{\circ}\text{C} \\ 25^{\circ}\text{C} \\ -40 \pm 3^{\circ}\text{C} \\ \hline \\ 2 & \text{min. max.} \end{array}$	B.C.D
3	High Temp & Humidity	85°C ± 3°C, RH 85% , 500Hrs	B.C.D



TXC P/N: 8Y26000050 REVISION: S1 PAGE: 9

RELIABILITY SPECIFICATIONS

	Specifications
А	Frequency change: Within ±5ppm or in customer's specification.
В	Frequency change: Within ±10ppm or in customer's specification.
С	Equivalent series resistance(E.S.R) change: Within ±15% or 10Ω(larger value).
D	After conditioning , quartz crystal units shall be subjected to standard atmospheric conditions for 2 hour, and measured.
Е	Minimum 95% of immersed terminal shall be covered with new uniform solder.
F	Leak rate< 1×10 ⁻⁵ Pa*m³/Sec
G	Leak rate< 4×10 ⁻⁹ Pa*m³/Sec

Measurement condition

Electrical characteristics measured by S&A250B or equivalent.