TXC CORPORATION

5F, NO. 16, Sec. 2 Chung Yang S Rd., Peitou, Taipei, Taiwan.

TEL: 886-2-2894-1202, 886-2-2895-2201 FAX: 886-2-2894-1206, 886-2-2895-6207 w

www.txccorp.com

SPECIFICATION FOR APPROVAL

CUSTOMER	:						
PRODUCT TYPE	:	SMD GLASS SEALING XTAL 5.0*3.2					
NOMINAL FREQ.	:	8.00000MHz					
TXC P/N	:	AA08000002					
REVISION	:	S1					
CUSTOMER P/N	:						
PM / SALES	:						
DATE	:						
CUSTOMER SIGNATURE & 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

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RoHS Compliant

Pb used in sealing glass material is exempt from EU directive

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PRODUCT SPECIFICATION SHEET

PRODUCT TYPE : SMD GLASS SEALING XTAL 5.0*3.2

NOMINAL FREQ. : 8.000000MHz

TXC P/N : AA08000002

REVISION : S1

PE/RD	QA	MFG
Joke Jun		
14-Aug-08		

NOTE:

(1)Lead Free Products are "Directive 2002/95/EC of The European Parliament of 27 January 2003 on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment" Compliant (Attachment: SGS Test Report).

(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

Pb used in sealing glass material is exempt from EU directive



TXC CORPORATION TXC P/N: AA08000002 REVISION: S1 PAGE: 1

<u>Rev</u>	Revise page	Revise contents	<u>Date</u>	Ref.No.	<u>Reviser</u>
S1	N/A	Initial released	14-Aug-08	N/A	Chao Kang

KC P/N: AA08000002 REVISION: S1 PAGE: 2

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±5
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 HP E5100A or equivalent.

Crystal cutting type

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

Unit Weight:

0.062±0.001 g/pcs

	Parameters	SYM.		Electric	al Spec.		Notes		
	Parameters	STIVI.	MIN	TYPE	MAX	UNITS	Notes		
1	Nominal Frequency	FL		8.000000)	MHz	-		
2	Oscillation Mode	-	Fı	undamen	tal	-	-		
3	Load Capacitance	CL		8		pF	-		
4	Frequency Tolerance	-	±30			ppm	at 25 ± 3		
5	Frequency Tolerance	-	±100			ppm	Over Operating Temp. Range (Reference 25)		
6	Operating Temperature	-	-40	~	125		-		
7	Aging	-		3		ppm	1st Year		
8	Drive Level	DL	-	100	300	uW	-		
9	Effective Resistance Rr	Rr	-	-	150	Ω	-		
10	Shunt Capacitance C0	C0	-	-	5	pF	-		
11	Insulation Resistance	-	500	-	-	МΩ	at DC 100V		
12	Storage Temperature Range	-	-40	~	150		-		



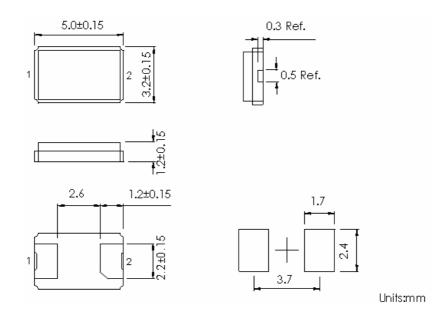
TXC CORPORATION

TXC P/N: AA08000002

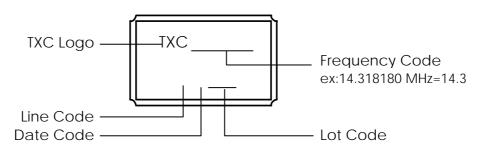
REVISION: S1

PAGE: 3

DIMENSIONS



MARKING



Date Code:

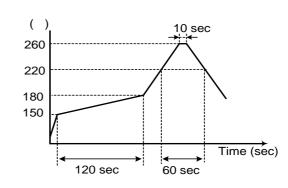
YEA	AR	MOI	NTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
2005	2009	2013	2017	Α	В	С	D	Ε	F	G	Н	J	K	L	М
2006	2010	2014	2018	N	Р	Q	R	S	Т	U	٧	W	Χ	Υ	Ζ
2007	2011	2015	2019	а	b	С	d	е	f	g	h	j	k	I	m
2008	2012	2016	2020	n	р	q	r	S	t	u	٧	W	Х	у	Z

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

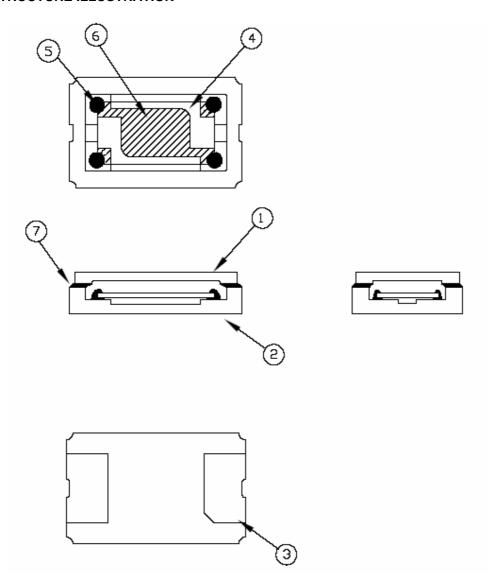
Production location: China

SUGGESTED REFLOW PROFILE

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

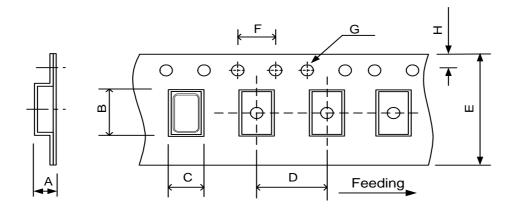


STRUCTURE ILLUSTRATION



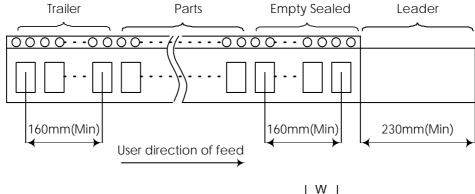
NO	COMPONENTS	MATERIALS	QTY	FINISH/SPECIFICATIONS
1	Сар	Ceramic	1	-
2	Base(Package)	Ceramic (Al ₂ O ₃)	1	Color black
3	PAD	Au	2	Tungsten metalize
				+ Ni plating
				+ Au plating
4	Crystal blank	SiO ₂	1	-
5	Conductive adhesive	Ag	8	Silicon resin
6	Electrode	Noble Metal	2	-
7	Glass	-	-	-

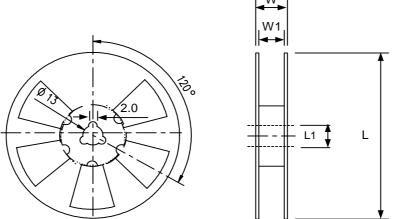
PACKING: (EIA-481-2)



DIMENSIONS	Α	В	С	D	E	F	G	Н	
DIMENSIONS	1.40	5.40	3.60	8.00	12.00	4.00	1.55	1.75	(UNIT : mm)

REMARK:





DIMENSIONS	L	L1	W W1		pcs / Reel (UNIT : mm)	
	180	13	16.5	12	Standard Reel Quantity is 1,000 pcs per reel	

RELIABILITY SPECIFICATIONS

1.Mechanical Endurance

No.	Test Item	Test Me	thods	REF.DOC
1.1	Drop Test	120 cm height,20 times on hard wo	od surface .	JIS C6701
1 2	Mechanical Shock	Device are shocked to half sine way	ve (3000 G) three mutually	MIL-STD-202F
1.2	Wedianical Shock	perpendicular axes each 12 times.	0.3m sec. duration time	WIL-31D-2021
		Frequency range	10 ~ 2000 Hz	
		Amplitude	0.75 mm/10G	
1.3	Vibration	Sweep time	20 minute	MIL-STD-202F
		Perpendicular axes each test time	24 hours	
			(Total test time 72 hours)	
		Temperature	245 ± 5	
		Immersing depth	0.5 mm minimum	
1.4	Solderability	Immersion time	5 ± 1 seconds	J-STD-002
		Flux	Rosin resin methyl alcohol	
			solvent (1:4)	
1.5	Terminal Strength	Mount on PCB board and shear stre	ength 1.8kg for 60 sec.	AEC-Q200-005

2. Environmental Endurance

No.	Test Item	Test Methods	REF. DOC
2.1	Resistance To Soldering Heat	Pre-heat temperature125Pre-heat time $60 \sim 120 \text{ sec.}$ Test temperature 260 ± 5 Test time $20 \pm 1 \text{ sec.}$	MIL-STD-202F
2.2	High Temp. Storage	+ 125 ± 3 for 1000 ± 12 hours	MIL-STD-883E
2.3	Low Temp. Storage	- 40 ± 3 for 1000 ± 12 hours	WIIE-31D-003L
2.4	Thermal Shock	Total 1000 cycles of the following Thermal Shock 1 cycle 125 +/- 3 °C 25 °C -55 +/- 3 °C 5 min. 5 min. 10 sec. max.	MIL-STD-202F
2.5	Temperature Cycle	Total 1000 cycles of the following temperature cycle - 40 ± 3 to 125 ± 3 , Dwell time <15min.,	
2.6	High Temp & Humidity	85 ± 3 , RH 85% , 1000hours	MIL-STD-202F
2.7	Moisture Resistance	10 cycles (+25 ~65 , 80%~100% RH) , 24hrs/cycle	MIL-STD-202F
2.8	Operational Life	+ 125 \pm 3 for 1000 \pm 12 hours , rated V :1M Ω	MIL-STD-202F

单击下面可查看定价,库存,交付和生命周期等信息

>>TXC(台湾晶技)