SERIES NO: VER A

SPECIFICATION FOR APPROVAL

CUSTOMER	
PRODUCT TYPE	SMD SEAM SEALING XTAL 5.0*3.2
NOMINAL FREQ.	40.000000 MHz
TXC P/N	7B40000065
CUSTOMER P/N	
ISSUE DATE	04/06/2007

CUSTOMER'S APPROVAL

(Please return one copy with approval)

APPROVED	QA
Robert Chen	Steve Yeh

TXC CORPORATION

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SMD QUARTZ CRYSTAL UNIT

(7B SERIES) SMD SEAM SEALING PACKAGE

PREPARED	APPROVED	QA
MIK	MICHAEL	LOUIS

CONTENT

ATTACHMENT(S) (optional)

TESTING DATA

- ELECTRICAL CHARACTERISTICS TEST A ☐ YES ☑ NO
- TEMPERATURE CHARACTERISTICS TEST B ☐ YES ☑ NO

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* The detail marking spec. please refer to marking code page

ELECTRICAL SPECIFICATIONS

1	Nominal Frequency	40.000000 MHz
2	Oscillation Mode	Fundamental
3	Load Capacitance	20 pF
4	Tolerance of Center Frequency	+/- 15 ppm at 25 ^{o}C+/-3^{o}C
5	Center Frequency Drift	+/- 15 ppm With Working Temperature
6	Working Temperature Range	-0^{o}C~+80^{o}C
7	Aging	1 ppm/year
8	Circuit	Measured by HP E5100A
9	Drive Level	100 uW Max.
10	Effective Resistance Rr	60 ohms. Max.
11	Shunt Capacitance C0	5 pF .
12	Motional Capacitance C1	NA
13	Insulation Resistance	More Than 500 Mohms at DC 100V
14	Storage Temperature Range	-40^{o}C~+85^{o}C

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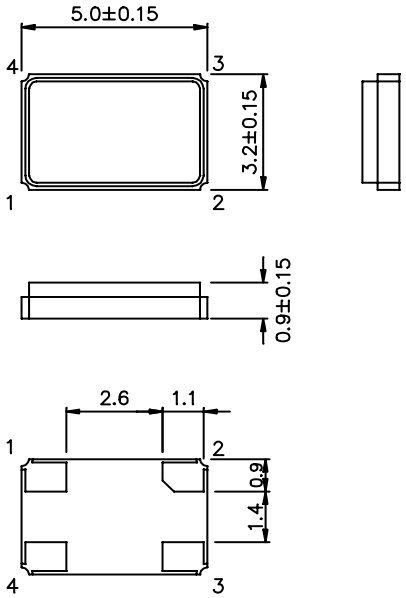
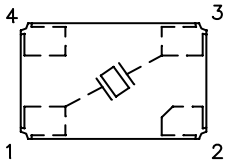
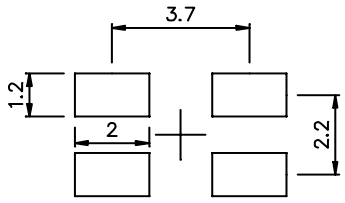
DIMENSIONS

UNIT:mm





Connection



Suggested Layout

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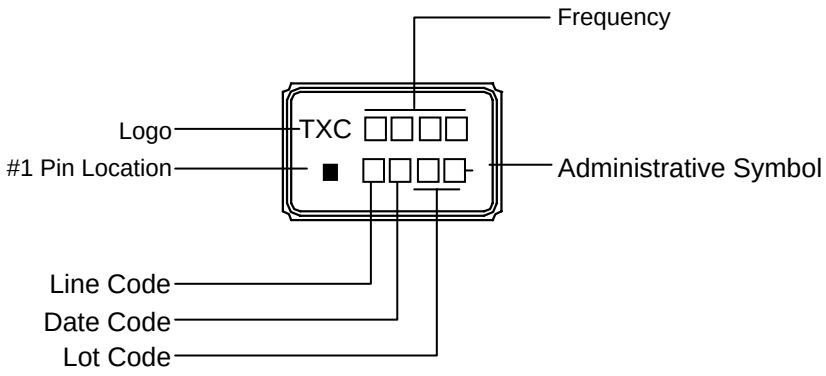
MARKING



Date Code:

YEAR \ MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2001 2005 2009 2013 2017	A	B	C	D	E	F	G	H	J	K	L	M
2002 2006 2010 2014 2018	N	P	Q	R	S	T	U	V	W	X	Y	Z
2003 2007 2011 2015 2019	a	b	c	d	e	f	g	h	j	k	l	m
2004 2008 2012 2016 2020	n	p	q	r	s	t	u	v	w	x	y	z

This date code will be cycled every four years

Example:

TXC 14.3
■ AN01

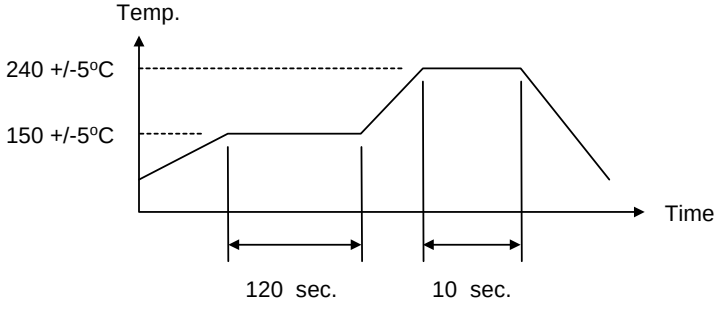
14.3181818MHz : 14.3

A LINE, 2002 YEAR JAN, 01 LOT : AN01

SUGGESTED REFLOW PROFILE

Total time : 200 sec. Max.

Solder melting point :185 ^{o}C



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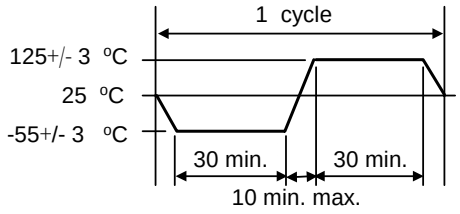
RELIABILITY SPECIFICATIONS

No.	Test Item	Test Methods	
1	Drop Test	75 cm height, fall freely onto stainless plate 3 times.	JIS C6701
2	Mechanical Shock	Device are shocked to half sine wave (1000 G) three mutually pendicular axes each 3 times. 0.5m sec. duration time	MIL-STD-202F
3	Vibration	Frequency range 10 ~ 2000 Hz Amplitude 1.52 mm Sweep time 20 minute Pendicular axes each test time 4 hours (Total test time 12 hours)	MIL-STD-883E
4	Solderability	Temperature 215 ^{o}C +/- 5 ^{o}C Immersing depth 0.5 mm minimum Immersion time 10 +/- 0.5 seconds Flux Rosin resin methyl alcohol solvent (1 : 4)	MIL-STD-883E
5	Resistance To Soldering Heat	Pre-heat temperature 125 ^{o}C Pre-heat time 60 ~ 120 sec. Test temperature 260 +/- 5 ^{o}C Test time 5 +/- 1 sec.	MIL-STD-202F
6	High Temp. Storage	+ 125 ^{o}C +/- 2 ^{o}C for 1000 +/- 12 hours	MIL-STD-883E
7	Low Temp. Storage	- 40 ^{o}C +/- 2 ^{o}C for 1000 +/- 12 hours	
8	Thermal Shock	Total 10 cycles of the following temperature cycle 	MIL-STD-883E
9	Pressure Cooker Storage	120 +/- 3^{o}C, RH100%, 2 bar, for 240 hours	

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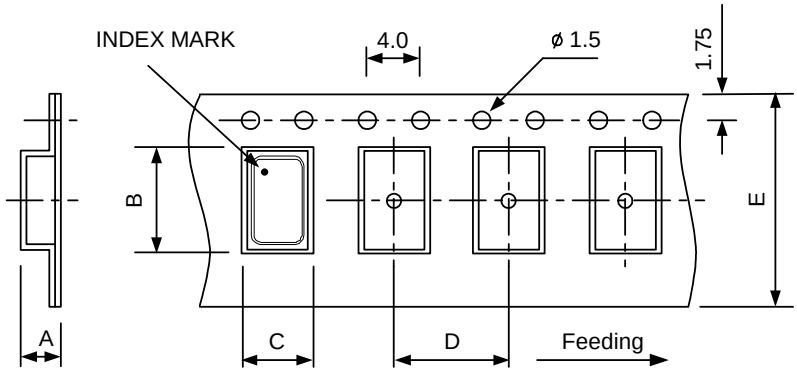
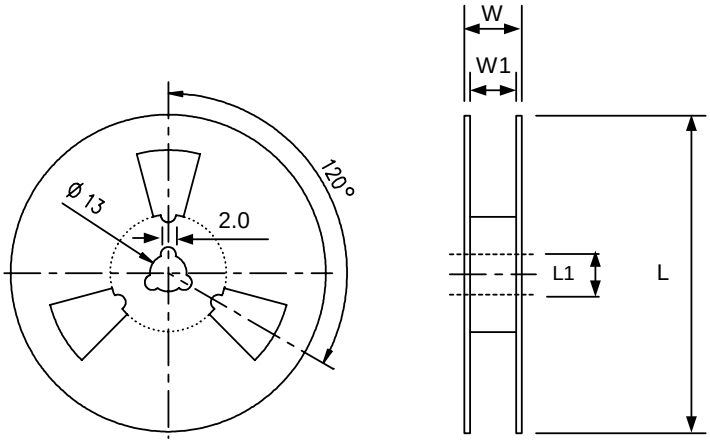
PACKING : (EIA-481-2)





UNIT : mm

DIMENSIONS	A	B	C	D	E	L	L1	W	W1	pcs / Reel
	1.46	5.5	3.6	8.0	12	180	13	15.4	13	1K

" Standard Reel Quantity is 1,000 pcs per reel "

REMARK :

1. 230 mm (9.05) minimum leader which consist of carrier and/or tape followed by a minimum of 160 mm (6.3) of empty carrier tape sealed with cover tape.

2. 160 mm (6.3) minimum trailer of empty carrier tape sealed with cover tape.

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