TXC CORPORATION

HC-49S SMD PRODUCT SPECIFICATIONS

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***DATE:** 2005/5/31 ***FILE NUMBER:**

I. PART NUMBER: **9C32700020** **VER:**

II. OPERATION CHARACTERISTICS

* 1. NORMINAL FREQUENCY: 32.768000 MHZ

* 2. MODE OF VIBRATION: ■ FUND ☐ 3rd ☐ 5TH

* 3. LOAD CAPACITANCE (CL): 20 pF

* 4. EFFECTIVE SERIES RESISTANCE: 50 Ω (MAX)

* 5. SHUNT CAPACITANCE (C0): 5 pF MAX. or pF to pF

* 6. CALIBRATION TOL. (25℃): **+/-20** ppm

* 7. OPERATION TEMP. RANGE: -20 ℃～ + 70 ℃

* 8. STABILITY OVER OPERATION TEMP. RANGE: ± 30 ppm(MAX.)

* 9. DRIVE LEVEL: 1 uW(MAX.)

10. INSULATION RESISTANCE: 500M Ω Min. at DC 100V.

III. OTHER:

11. UNWANTED MODES: **SPUR<-3.5dB (+/-5000ppm)**

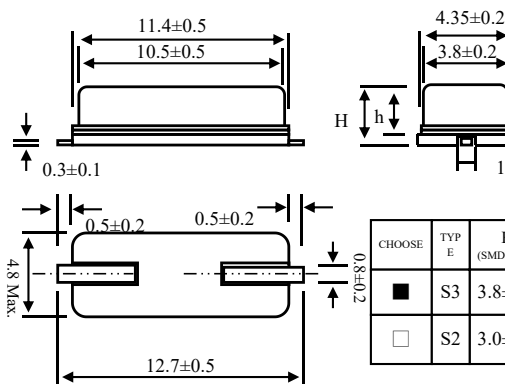
12. LONG TERM STABILITY :± 3ppm / Year

*13. MOTIONAL CAPACITANCE(CM): fF Min

*14.C0/CM:

15.OTHERS: Taping Reel (24*12) **無鉛製程**(Pb-Free)

IV. MARKING: UNIT: mm



V. PACKING METHOD :

1. PACKING: ☐ TRAY (TXC STANDARD, White color) ☐ TRAY (Antistatic Material,___ Color)

■ TAPING ON REEL ☐ TAPING (AMMO PACKING)

☐ ANTISTATIC BAG (____ Color),_____Pcs/Bag.

☐ ZIPPER PLASTIC BAG (Clear), 200 Pcs/Bag, 5 Bag/Box ☐ OTHERS : _____

2. INNER BOX : ■ TXC STANDARD ☐ OTHERS

VI. RELIABILITY SPECIFICATIONS:(OTHERS REFER TO TXC QA SPEC.)

1. HERMETIC SEAL:LESS THAN 1×10^{-8} atm cc/sec.
2. MARKING PERMANENCY : Per MIL-STD-202,Method 215.
3. DROP TEST: Free dropping 3times, at 50cm height, drop on 3cm hard wood.
4. SOLDERABILITY: 95% coverage by using 63/37 solder at 245℃ for 5 sec. dipping.
   after immersion in Alpha 611 flux for 5sec.

***REMARK: *** ☐ NO MARKING ■ MARKING

TXC G 第一 " * " =>製造廠代碼

32.7**01 第二 " * " =>日期代碼

REVISION AND ENGINEERING CHANGE RECORDS

Ver.	Description of Change	Date	Approved	Check
A	INITIAL RELEASED	2005/5/31		

			TON	SIMON

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品

A

2

1.0

H (DHIGH)	h (BODYGH)
3±0.3	3.3±0.3
0±.03	2.3±0.3

Present

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INSPECT SPECIFICATIONS

依頻率訂定一般電氣規格要求如下: (註 : 如規格另有特殊規定，則依"外製成品49S"規格書）

1.) FDLD & DLD2規格 如下:

Frequency Range	FDLD製規	DLD2製規	FQC / IQC DLD2規格
Fundamental	(ppm) Max.	(Ohms) Max.	(Ohms) Max.
4MHz(不含)以下	10	20	25 Ω
4MHz(含) ~ 8MHZ(含)	10	15	20 Ω
8MHz(不含)~18MHz(含)	10	10	15 Ω
18MHz(不含)~以上	15	10	15 Ω
3rd Overtone			
24MHz~100MHz	10	20	30 Ω
			(FDLD 允收: 15ppm ma

2.) DLD POWER 至少設定 0.1、1、 10、 50、 100 uW

3.) Spurious規格修訂如下:

Frequency Range	Spurious spec.
Fundamental	Search Range(-5000~+5000ppm)
20MHz(含)以下	-3.5 dB Max.
20MHz(含)以上	-3.5 dB Max.
3rd Overtone	
24MHz~60MHz	-3.5 dB Max.
60MHz~100MHz	-3.5 dB Max.

4.) TXC IQC 抽樣檢驗DLD2依MIL-STD-105E Level Ⅱ& Single sampling plans：

a.)2003/4/24~6/30 依照AQL 0.4允收。

b.)2003/7/1 起依照AQL 0.1允收。

Verion	B	Revised		Prepared by	Shu-Ch

Date	2003/8/24	DCC. No.	製品管理辦法A.1	Check by	Simon
Issued by	M.E.Department	Hold Type	HC-49/S	Approved by	Jos

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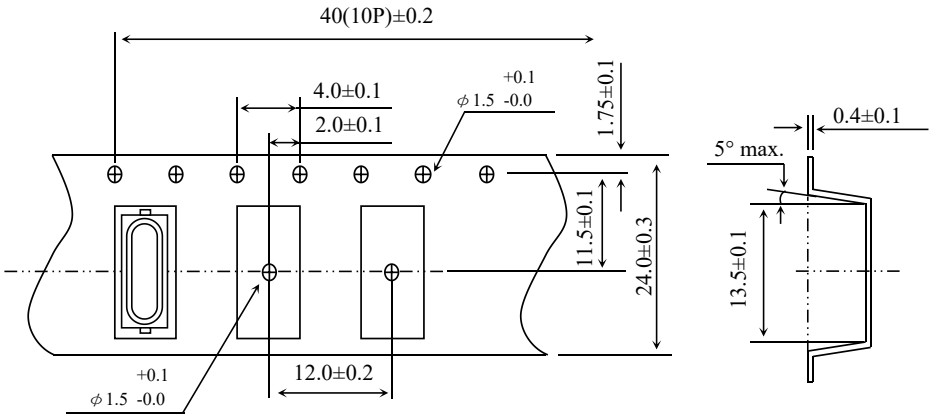
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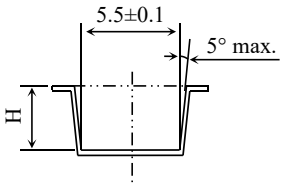
SPECIFICATIONS

(A) Tape and reel configuration:

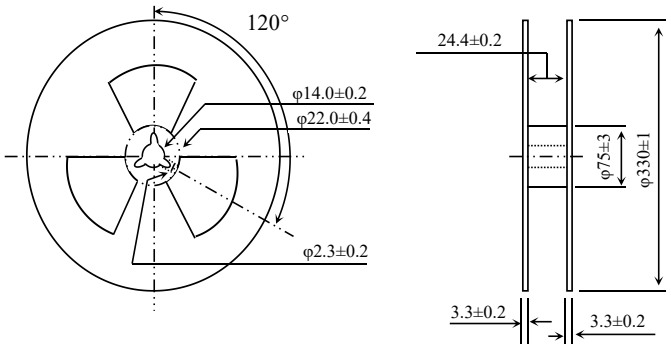
(a) Emboss taping configuration. (per EIA-481-2)



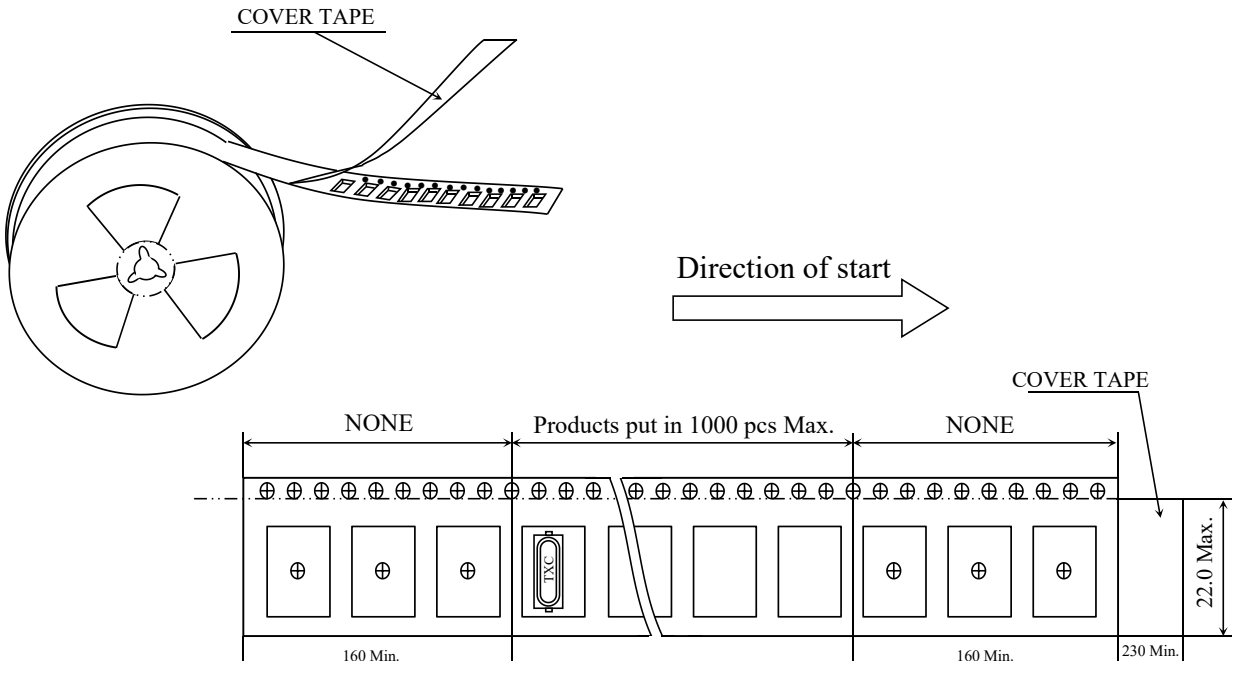
TYPE	H (+/-0.1)
S3	4.2
S2	3.3

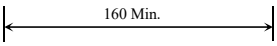


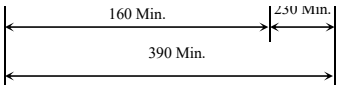
(b) Reel configuration.



(B) Packing:



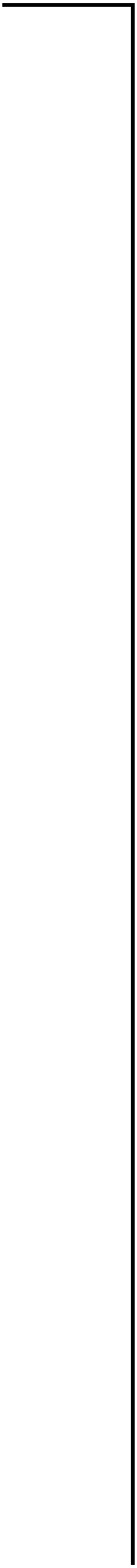


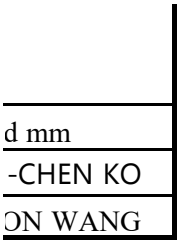


*包裝時晶體方向需一致,MARKING的TXC一律朝左。(如上圖所示)

Verion	B	Revised records	N/A	*All units use	
Date	2003/8/24			Prepared by	SHU
Issued by	M.E.Department	Hold Type	HC-49/S SMD	Approved by	SIM

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ON WANG