TXC CORPORATION

HC-49S PRODUCT SPECIFICATIONS

***DATE:**	2003/5/7	***FILE NUMBER:**	P. 1/3
I. PART NUMBER:	**6B24000046**	**VER:**	B

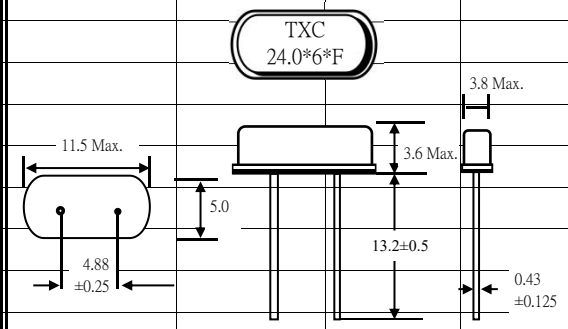
II. OPERATION CHARACTERISTICS

* 1. NORMINAL FREQUENCY:	24.000000	MHZ
* 2. MODE OF VIBRATION:	■ FUND ☐ 3rd ☐ 5TH	
* 3. LOAD CAPACITANCE (CL):	20	pF
* 4. EFFECTIVE SERIES RESISTANCE	20	Ω(MAX)
* 5. SHUNT CAPACITANCE (C0):	7 pF MAX. or pF to pF	
* 6. CALIBRATION TOL. (25℃):	± 30 ppm	
* 7. OPERATION TEMP. RANGE:	-10 ℃～ + 60 ℃	
* 8. STABILITY OVER OPERATION TEMP. RANGE:	± 30 ppm(MAX.)	
* 9. DRIVE LEVEL:	1 uW(MAX.)	
10. INSULATION RESISTANCE: 500MΩMin. at DC 100V.		

III. OTHER:

*11. UNWANTED MODES: -3dB Max. (+/- 5000 ppm)
12. LONG TERM STABILITY :± 3ppm / Year
*13. MOTIONAL CAPACITANCE(CM): fF Min
*14.C0/CM:
15.OTHERS: SEE ATTACH PAGE.

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 PUT IN BUBBLE 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

REVISION AND ENGINEERING CHANGE RECORDS

Ver.	Description of Change	Date	Approved	Check	Present
A	INITIAL RELEASED	2001/11/21			
B	MODDIFY SPECIFICATION	2003/5/7			
			彭瑞麟	王宣慶	柯淑貞

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	15	依客戶規格
4MHz(含) ~ 8MHZ(含)	10	20	30 Ω (20+20*50%)
8MHz(不含)~18MHz(含)	10	10	15 Ω (10+10*50%)
18MHz(不含)~以上	15	12	15 Ω (10+10*50%)
3rd Overtone			
24MHz~100MHz	10	20	30 Ω (20+20*50%)
			(FDLD 允收: 15ppm max.)

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	-3.0 dB Max.
20MHz(含)以上	-3.0 dB Max.
3rd Overtone	
24MHz~60MHz	-3.5 dB Max.
60MHz~100MHz	-3.0 dB Max.

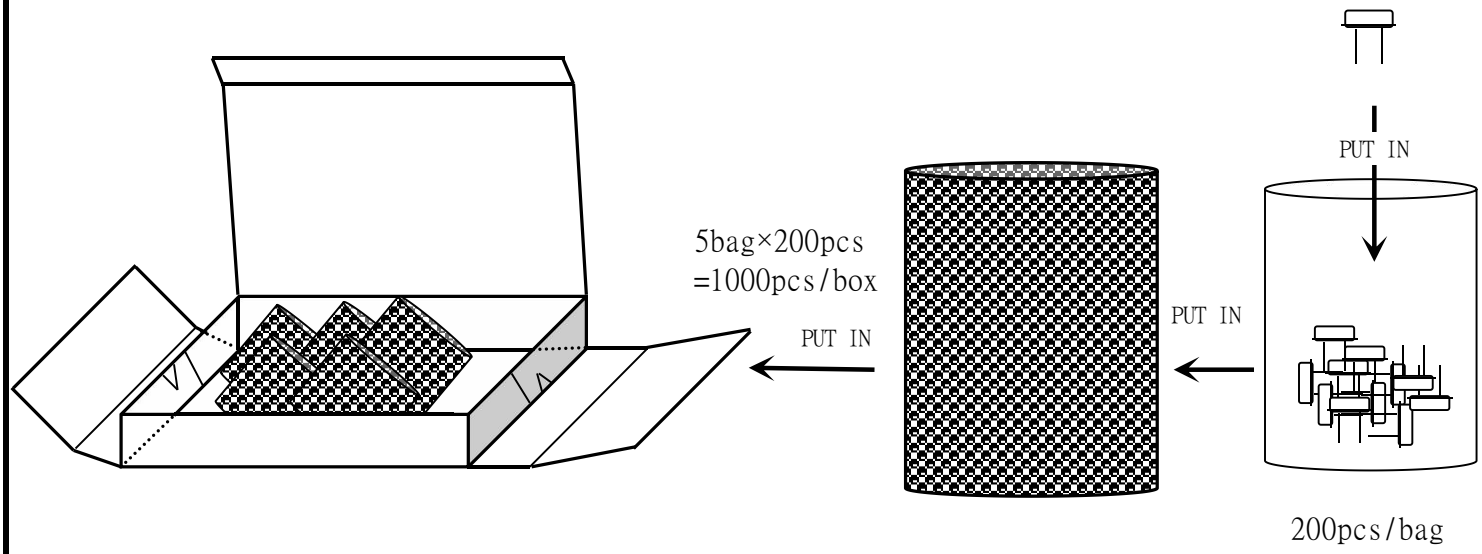
4.) TXC IQC 抽樣檢驗DLD2依MIL-STD-105E Level Ⅱ& Single sampling plans ：

a.)2003/4/24~6/30 依照AQL 0.4允收。

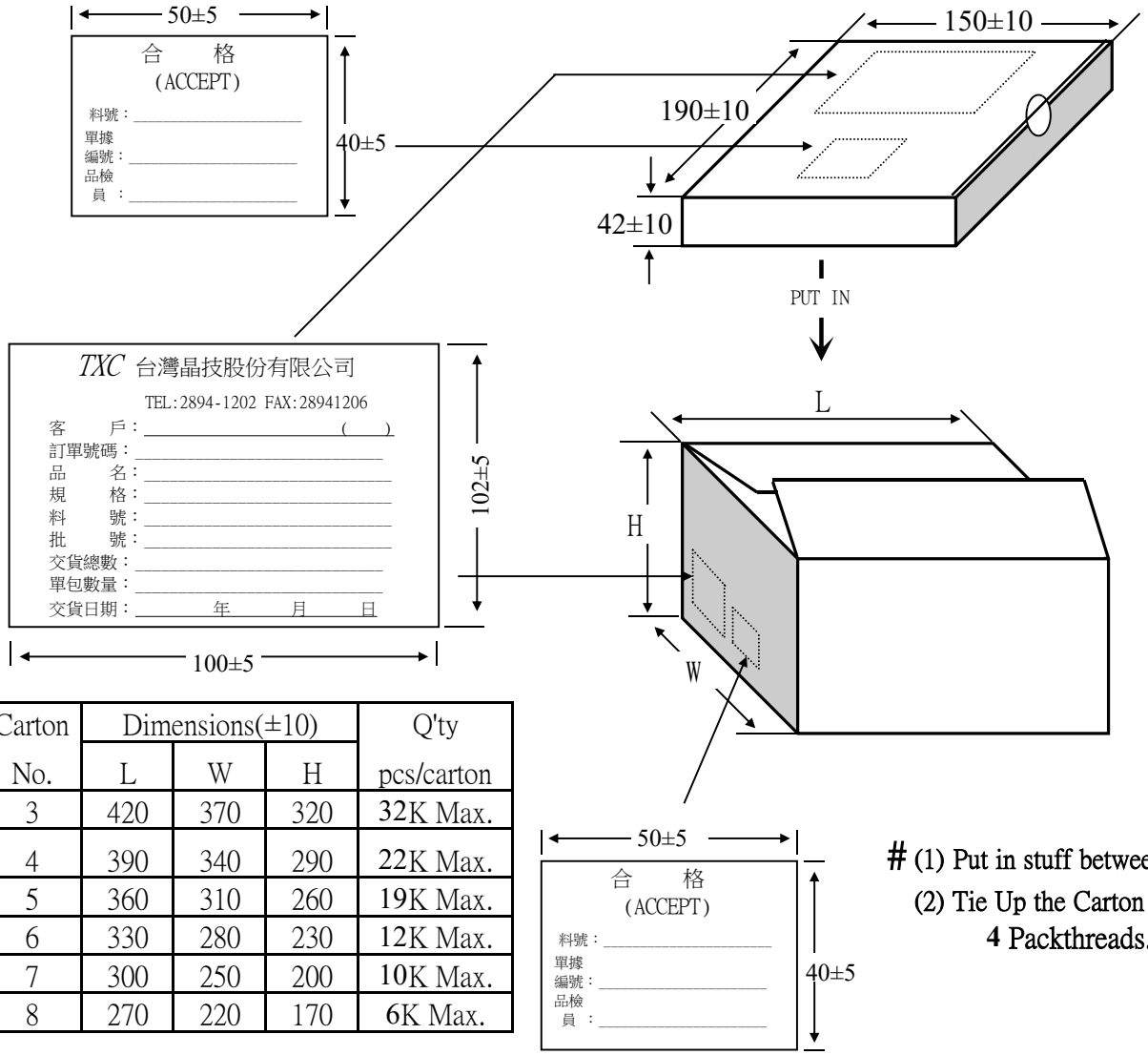
b.)2003/7/1 起依照AQL 0.1允收。

PACKAGE SPECIFICATIONS

1.INNER BOX：



2.LOGO STICKER(CARTON and INNER BOX)



Carton No.	Dimensions(±10) L	W	H	Q'ty pcs/carton
3	420	370	320	32K Max.
4	390	340	290	22K Max.
5	360	310	260	19K Max.
6	330	280	230	12K Max.
7	300	250	200	10K Max.
8	270	220	170	6K Max.

(1) Put in stuff between space.
(2) Tie Up the Carton with
4 Packthreads.

Verion	A	Revised records	For TXC customer only	*All units used mm	
Date	2001/1/29			Prepared by	Shu-Chen Ko
Issued by	M.E.Department	Hold Type	HC-49/S (C)	Approved by	Simon Wang

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