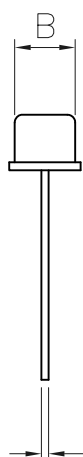
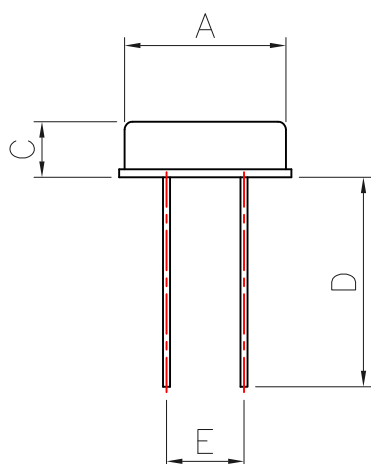


TOP VIEW



FRONT VIEW

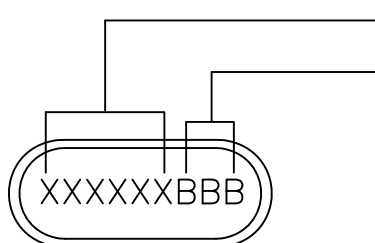


SIDE VIEW

ITEM	DIMENSION	
A	10.16 Max.	
B	3.81 Max.	
C	TYPE	HEIGHT
	92	2.25/2.35mm*
	93	2.50mm Max.
	9S	3.50mm Max.
	94	4.00mm Max.
	95	5.00mm Max.
D	1.LEAD LENGTH 13.2±0.5(STANDARD) 2.LEAD LENGTH (2.8~16)±0.5 REFER TO CUSTOMER REQUEST	
E	4.88 ±0.2	
F	0.45 ±0.05	
G	11.05 Max.	
H	4.7 MAX	

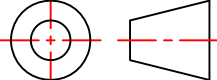
* >5MHz = 2.25mm MAX
<5MHz = 2.35mm MAX

MARKING INFORMATION

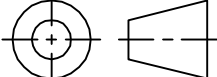


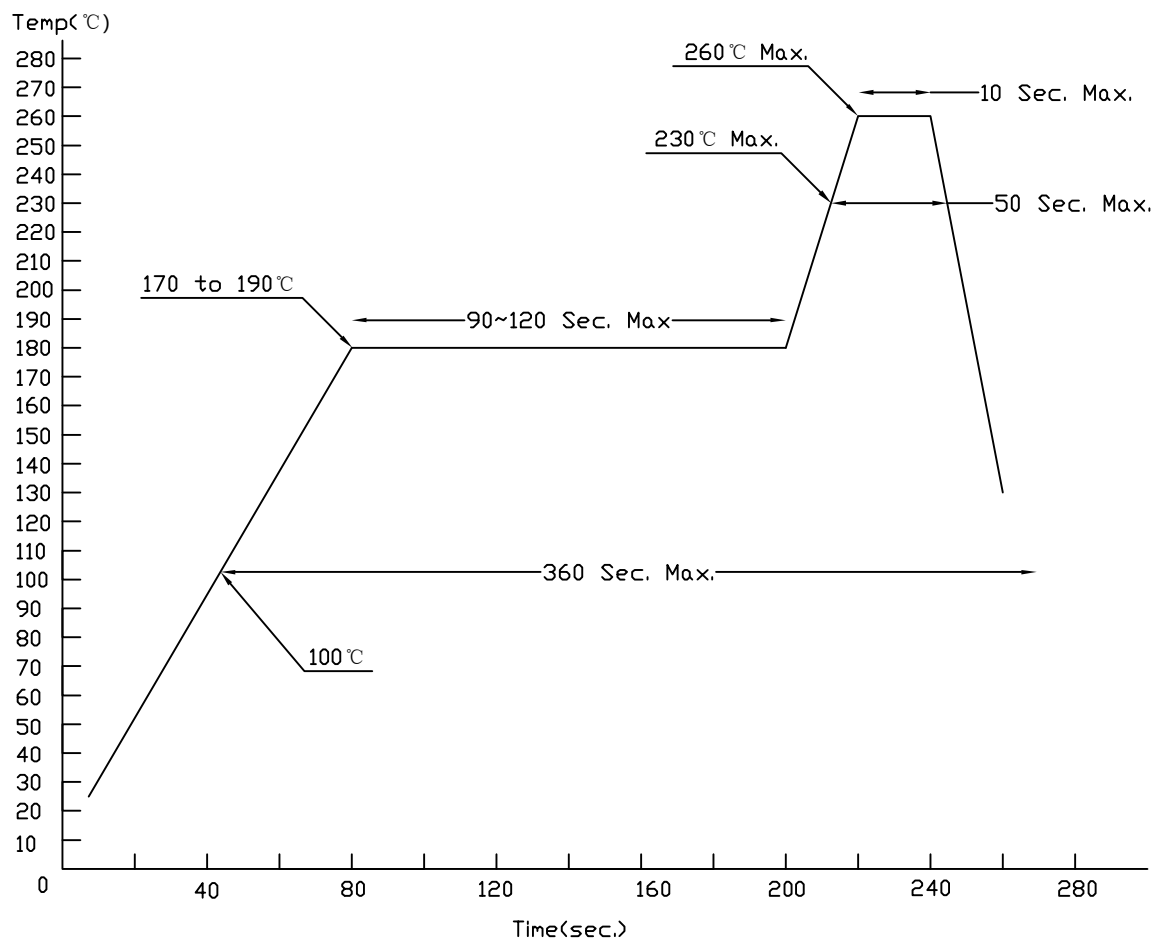
XXXXXX = CRYSTAL FREQUENCY

BBB - 2~3 DIGITS BATCH CODE

		49S DETAILS & MARKING INFORMATION						CREATIVE
ITEM	QTY.	DESCRIPTION		MAT'L	HDN.	SURFACE	MAT'L SIZE	REMARK
GENERAL TOLERANCE: .X=+/-0.5 .XX=+/-0.1 XXX=+/-0.05			DATE	NAME			TITLE : HC-49US CRYSTAL	
		DRAWN	08-03-10	Deng			PART No.: 92 93 9S 94 95	
		CHECK	08-03-10	Hong			DRAWING No.: 12033780	
		APROV.	08-03-10					
PROPRIETARY NOTICE : THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTIES OF HKC.				HONG KONG X'TALS LTD.				
DO NOT SCALE DRAWING		ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED				SCALE: NA SHT. 1 OF 1 REV. 04		

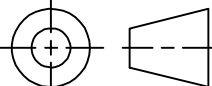
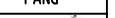


		INTERNAL STRUCTURE							
ITEM	QTY.	DESCRIPTION			MAT'L	HDN.	SURFACE	MAT'L SIZE	REMARK
GENERAL TOLERANCE: X= ±0.5 X* = ±0.5* .X= ±0.1 .X* = ±0.1* .XX= ±0.05 .XX* = ±0.05*			DATE	NAME			TITLE : HC-49US LEAD FREE CROSS-SECTION		
		DRAWN	19-12-11	OUYANG					
		CHECK	19-12-11	CAI					
		APPROV.	20-12-11						
PROPRIETARY NOTICE : THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KOLINKER				HONG KONG X'TALS LTD.		PART No.: 92 93 94 95 9S			
						DRAWING No.: 12037852			
DO NOT SCALE DRAWING		ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED					SCALE:NA	SHT. 1 OF 1	REV. 03



Note:

1. Lead Free or RoHS Compliance
2. Ramp up rate (from 217°C to 260°C): 3°C/Sec. Max.
3. Ramp down rate: 4°C/Sec. Max.
4. Recommended reflow times: 2 times Max.
5. Effective products:
 - AT cut SMD type crystals including 49US SMD Crystal, Ceramic SMD Crystal, Glass Frit Crystal etc.
 - AT cut SMD type oscillators including crystal oscillator, VCXO, TCXO, OCXO etc.
6. High temperature type SMD tuning fork crystal

NOTE								
ITEM	QTY.	DESCRIPTION		MAT'L	HDN.	SURFACE	MAT'L SIZE	REMARK
GENERAL TOLERANCE: X=±0.5° X°=±0.5° X=±0.1° X°=±0.1° .XX=±0.05° .XX°=±0.05°			DATE	NAME		TITLE: Product Reflow Profile		
		DRAWN	11-06-2013	TAN				
		CHECK	11-06-2013	PANG		PART No.: Refer to DWG Description		
		APPROV.	11-06-2013					
PROPRIETARY NOTICE : THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF HKC.		 HONG KONG X'TALS LTD.			SCALE: NA			
		ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED						SHT. 1 OF 1
DO NOT SCALE DRAWING						REV.02		