

CRYSTAL SPECIFICATION



CUSTOMER PART NO. : HKC49US-6MHz-38278-B1V1
PRODUCT CODE : HKC49US-6MHz-38278-B1V1
PRODUCT DESCRIPTION : HC49US CRYSTAL THRU HOLE TYPE

Customer Approval :

Hong Kong X'tals Limited



Unit C, 24/F, Shield Industrial Centre,
84 - 92 Chai Wan Kok Street,
Tsuen Wan, New Territories, Hong Kong.

Fax: (852) 3511 2420
Phone: (852) 3511 2388
Email: hkxtals@HongKongCrystal.com
Website: www.hongkongcrystal.com

Date : 02/07/2024

Approved by :

A handwritten signature in black ink, appearing to be "Ronald Chan".

Mr. Ronald Chan / Product Engineer

CRYSTAL SPECIFICATION

Product Code : HKC49US-6MHz-38278-B1V1

Description : Quartz Crystal

Revision History

Rev.	Date	Reason	Issued By
0	21/06/2023		James Tsim

CRYSTAL SPECIFICATION

Customer Part No. : HKC49US-6MHz-38278-B1V1

Product Code : HKC49US-6MHz-38278-B1V1

Description : Quartz Crystal

Nominal Frequency : 6.000 MHz

Oscillation Mode : Fundamental

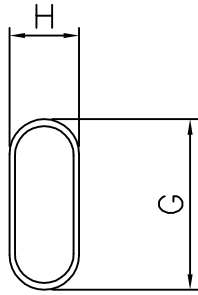
Holder Type : 9S

Measure equipment

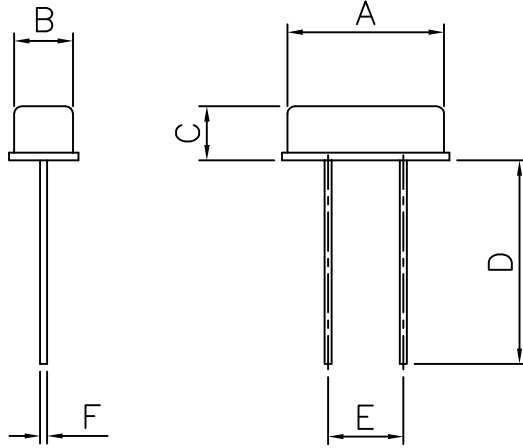
Electrical characteristics measured by Kolinker KH1240 or HP5100 equivalent.

Electrical Characteristics :

Load Capacitance	20 pF
Frequency Tolerance At 25 °C	± 30 ppm
Frequency Stability	± 50 ppm
Temperature Range	-40 ~ 85 °C
Operable Temperature Range	-45 ~ 90 °C
Ageing	<± 5 ppm first year
Drive Level	50 µW typ. (300 µW Max.)
Equivalent Series Resistance	60 ohms Max.
Shunt Capacitance	5 pF Max.
Insulation Resistance	500M ohm Min at 100 VDC
Marking	6.000+TRACEABILITY CODE
SPQ / Pack Type	100 / BAG



TOP VIEW



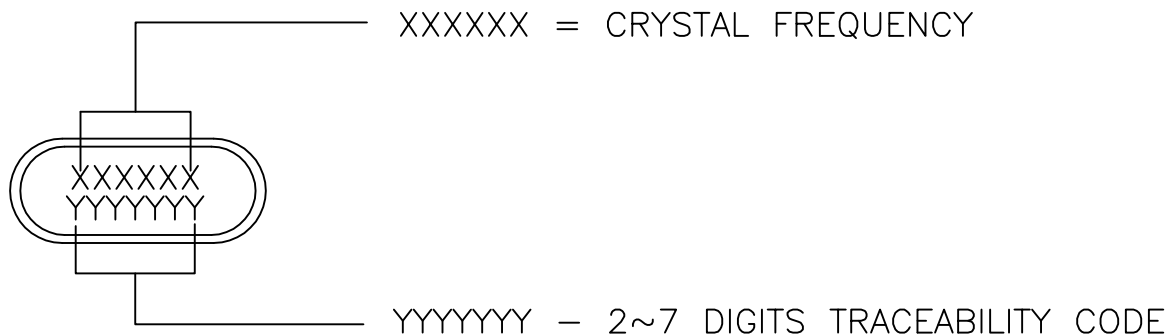
FRONT VIEW

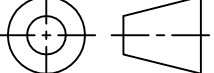
SIDE VIEW

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.	

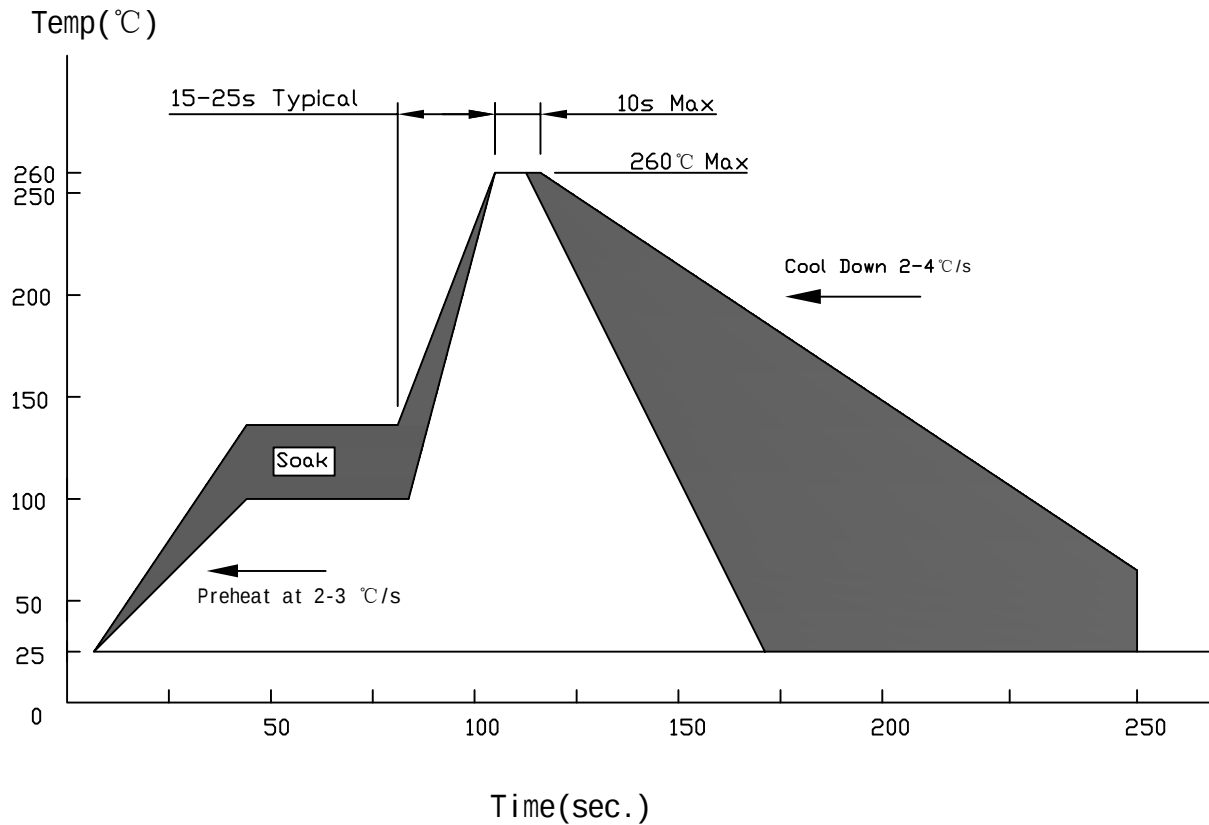
* >5MHz = 2.25mm MAX
<5MHz = 2.35mm MAX

MARKING INFORMATION



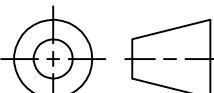
		49S DETAILS & MARKING INFORMATION							CREATIVE
ITEM	QTY.	DESCRIPTION		MAT'L	HDN.	SURFACE	MAT'L SIZE		REMARK
GENERAL TOLERANCE: .X=±0.5 .XX=±0.1 .XXX=±0.05			DATE	NAME			TITLE : HC-49US CRYSTAL		
		DRAWN	2016-2-19	TAN					
		CHECK	2016-2-19	PANG					
		APROV.	2016-2-19						
PROPRIETARY NOTICE : THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTIES OF HKC.				HONG KONG X'TALS LTD.		PART No.: 92 93 9S 94 95			
						DRAWING No.: 12033780			
DO NOT SCALE DRAWING		ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED					SCALE: NA	SHT. 1 OF 1	REV. 05

Wave Soldering Profile



Note:

1. Only the lead wire region is exposed to high temperature
2. Ramp down rate : 4°C/ Sec. Max
3. Effective products:
 - Thru-hole AT cut 49US crystals, oscillators
 - Thru-hole ceramic resonators.

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: Thru-hole Packages(AT/CR) typical wave soldering profile		
		DRAWN	2015-3-9	TAN					
		CHECK	2015-3-9	PANG					
		APPROV.	2015-3-10						
PROPRIETARY NOTICE : THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF HKC.		 HONG KONG X'TALS LTD.				PART No.: Refer to DWG Description			
						DRAWING No.: 13000003			
DO NOT SCALE DRAWING		ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED					SCALE: NA	SHT. 1 OF 1	REV.01