Hong Kong X'tals Limited

■ Holder Type: 92 / 93 / 98 / 94 / 95 **HC49US Thru-hole Crystals Frequency Range:** 3.01MHz to 100.00MHz **Features:** • High Reliability & Low Cost Unit • Tight Stability & Extended Temperature 95 92 93 **9S** 94 Available Actual Size • Lead-free Type • For automotive applications, ____ please contact our sales representative 92 95 93 **9**S 94 Standard Specifications

Item	Value		
Frequency Range	3.01 to 100.00 MHz		
Frequency Tolerance	±30ppm (tighter tolerance also available)		
Frequency Tolerance over Temperature range	±50ppm (tighter tolerance also available)		
Operating Temperature Range	-10 °C to +60 °C (other operating range also available)		
Operable Temperature Range	-40 °C to +85 °C		
Equivalent Series Resistance (ESR)	Please refer to the ESR Table		
Drive Level	50 μ W (0.001 μ W to 1000 μ W also available)		
Load Capacitance	12pF (3pF, 4.5pF, 6pF and series also available)		
Aging	±5ppm/year		

ESR Table

QUARTZ

Frequency Range (MHz)	Mode	Standard ESR (Ohm)	
3.01 to 3.5	AT Cut Fund.	300	
3.5 to 4.0	AT Cut Fund.	150	
4.0 to 4.5	AT Cut Fund.	130	
4.5 to 5.0	AT Cut Fund.	110	
5.0 to 6.0	AT Cut Fund.	80	
6.0 to 7.0	AT Cut Fund.	60	
7.0 to 10.0	AT Cut Fund.	50	
10.0 to 13.0	AT Cut Fund.	40	
13.0 to 50.0	AT Cut Fund.	30	
27.0 to 100.0	BT Cut	40	
26.0 to 100.0	3rd Overtone	100	

Note:

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1. Manufacturer reserves the right to change the specification and content of this product for improvement without notification.

2. Custom specification is welcome. Please contact our sales representative for further details.

3. If the crystal is intended for applications which have direct impact on human life and properties, and require a high degree of reliability and safety concerns, customers must provide full information such as but not limit to the application, electrical and reliability specification at the inquiry beginning stage.

4. Customers have to agree to the "Guideline for handling crystal units" and "Standard Terms and Condition of Sales" which is printed this catalog before placing orders to our company or our distributors. There are also unpredictable factors such as applied condition, oscillation margin and etc and customers must check them beforehand. In case of queries, please do not fail to send inquiry to our company before ordering.

http://www.hongkongcrystal.com

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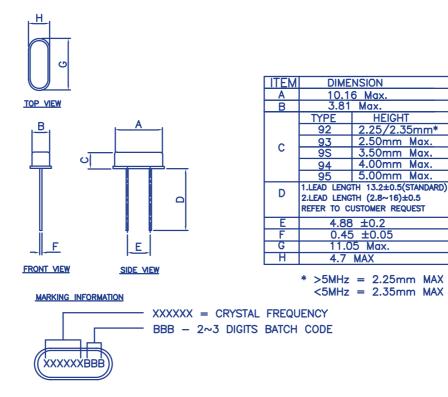
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Hong Kong X'tals Limited

HC49US Thru-hole Crystals

Dimensions (mm)



Bulk pack / Optional Tape Packing(mm)

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NOTE: CRYSTAL DIMENSIONS PLEASE REFER TO CRYSTAL DRAWING

		THE ORTOTTLE DRITE	
ITEM	SYMBOL	SIZE (mm)	REMARKS
PITCH OF COMPONENT	Р	12.70 ± 1.0	
FEED HOLE PITCH	PO	12.70 ± 0.3	
HOLE CENTER TO LEAD	P1	3.85 ± 0.7	
FEED HOLE CENTER TO COMPONENT CENTER	P2	6.35 ± 1.3	
LEAD TO LEAD DISTANCE	F	5.00 ± 0.5	
COMPONENT ALIGNMENT	∆h	0.00 ± 2.0	
	≙h1	0.00 ± 2.0	
TAPE WIDTH	W	18.00 ± 👪	
HOLD DOWN TAPE WIDTH	WO	12.00	
HOLD POSITION	W1	9.00 ± 0.5	
HOLD DOWN TAPE POSITION	W2	0.00 ± 👪	
HEIGHT OF COMPONENT FROM TAPE CENTER	н	19.00 ± 1.0	
LEAD WIRE CLINCH HEIGHT	HO		
COMPONENT HEIGHT	H1	24.0 MAX.	
FEED HOLE DIAMETER	Dia D	4.00 ± 0.2	
TOTAL TAPE THICKNESS	t	0.60 ± 0.3	

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