imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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HC-46X Quartz Crystal

The HC-46X is the miniature low profile resistance weld type Thru Hole quartz crystal. Reduces footprint of HC-49USX by 50%.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

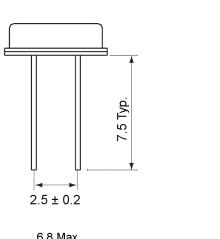
PARAMETERS	CONDITIONS		HC-46X		UNITS
PARAMETERS	CONDITIONS	MIN	TYP	MAX	UNITS
Frequency Range	fo	12.000		40.000	MHz
Frequency Tolerance	at +25°C			± 30	ppm
Frequency Stability ref @ 25°C	Standard -10 to +70°C			± 50	ppm
Shunt Capacitance	Co			7	pF
Load Capacitance (CL)	Specify in P/N	10	20	Series	pF
Drive Level				100	μW
Operating Temperature	Standard	-10		+70	°C
Storage Temperature		-40		+85	°C
Aging (First Year)	@ +25°C ±3°C			±5	ppm

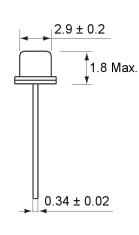
EQUIVALENT SERIES RESISTANCE/MODE OF OSCILLATION

FREQUENCY RANGE (MHz)	MODE OF OSC	MAX ESR Ω	FREQUENCY RANGE (MHz)	MODE OF OSC	MAX ESR Ω
12.000 ~ 15.999	Fundamental	60	30.000 ~ 40.000	Fundamental	40
16.000 ~ 29.999	Fundamental	50			

PACKAGE DIMENSIONS (mm)

RNATIONAL





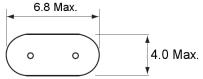


Figure 1) Side, Bottom and End views

PART NUMBERING GUIDE:	Custom Options				
ECS - Frequency Abbreviation	Load Capacitance	e - Package 46X = HC-46X	Tolerance	Stability D= ±100 ppm E= ±50 ppm G= ±30 ppm H= ±25 ppm K= ±10 ppm	Temp Range L= -10 ~ +70°C M= -20 ~ +70°C N= -40 ~ +85°C

Actual Size



HC-49USX



Figure 2) Size Comparison