

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

HC-46X QUARTZ CRYSTAL

[Request a Sample](#)

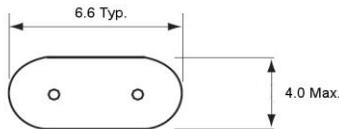
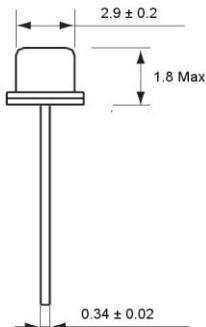
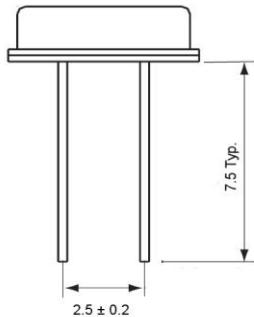


HC-46X QUARTZ CRYSTAL



- Cost Effective
- Low Profile
- Pb Free/RoHS Compliant

DIMENSIONS (mm)



Frequency (MHz)	ESR Ω Max.
12.000 ~ 15.999	60
16.000 ~ 29.999	50
30.000 ~ 40.000	40

Figure 1) Side, Bottom, and End

PART NUMBERING GUIDE: Example ECS-200-20-46X

ECS - FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	Tolerance	AVAILABLE OPTIONS	PACKAGING	
ECS	200 = 20.000 MHz See P/N Guide	20 = 20 pF S = Series	46X = HC-46X	Blank = Std A = ± 25 ppm J = ± 20 ppm R = ± 15 ppm C = ± 10 ppm	Blank= Std D = ±100 ppm E = ± 50 ppm G = ± 30 ppm H = ± 25 ppm T = ± 20 ppm † W = ±15 ppm † K = ± 10 ppm †	Bulk

* Specify available options in P/N.

† Contact ECS for availability over extended temp range.

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SOLDER PROFILE

Peak solder Temp +260°C Max 10 sec Max.
 2 Cycles Max.
 MSL 1, Lead Finish Sn/Cu Matte

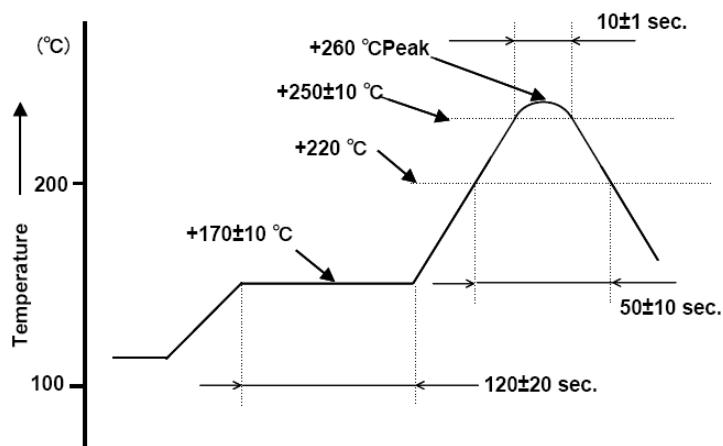


Figure 1) Suggested Solder Profile

DEVELOPED FREQUENCIES

Abbreviation	Frequency (MHZ)
120	12.000
122.8	12.288
130	13.000
135.6	13.560
143	14.31818
147.4	14.7456
160	16.000
184	18.432
196.6	19.6608
200	20.000
245.7	24.576
250	25.000
270	27.000
286.3	28.63636
300	30.000
330	33.000
400	40.000