

The HC-45/U cold weld enclosure is ideally suited for the manufacture of precision AT and SC cut high reliability resonators where space is limited.

The smallest available package in the quartz crystal cold weld series.

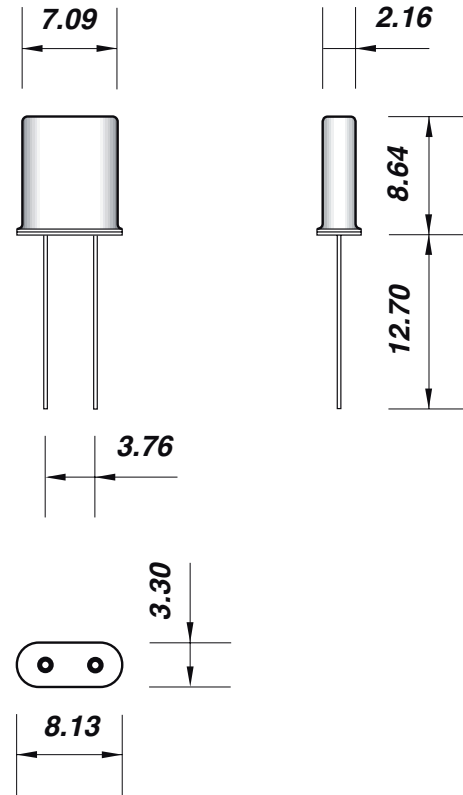
The small volume allows for fast thermal transmission and the high vacuum environment ensures the best possible ageing and phase noise performance.

Custom specified with typical data as follows:

Specification data:

Environment	high vacuum
Quartz orientation	AT, SC, IT cut
Frequency range	(8 ~ 35)MHz fundamental (20 ~ 110)MHz 3rd overtone (60 ~ 175)MHz 5th overtone (110 ~ 200)MHz 7th overtone
Adjustment tolerance	from ± 3.0 ppm at ref. temp. frequency dependent
Thermal stability	OCXO turn point from $\pm 3^\circ\text{C}$ TCXO from $\pm 0.5^\circ$ equivalent \emptyset angle XO from ± 3 ppm temperature dependent
Operating temperature	$(-55 + 105)^\circ\text{C}$ custom specified
Storage temperature	$(-40 + 105)^\circ\text{C}$ custom specified
Load	
Shunt capacitance C_0	(1.5 ~ 5.5)pF
Suggested drive level	(5 ~ 150) μW
Q factor	up to 400K, frequency, cut and mode dependent
Ageing - frequency dependent	AT cut: ± 0.5 ppm typical, first year max. SC cut: ± 0.2 ppm typical, first year max.
Insulation resistance	500Meg. Ω min. at 100Vd.c.

Dimensions(mm)



lead diameter 0.38