

The HC-26/U is an all glass high reliability enclosure providing unique resonator parameters.

The seal is formed from the fusing together of a glass pyrex base and a glass envelope using rf heating in a high vacuum environment. This results in an exceptionally reliable seal manufactured from low outgassing materials.

Benefits include a low magnetic signature, very good ageing, low thermal hysteresis and very high temperature resistance. Additionally the transparent envelope provides visual inspection of the crystal blank.

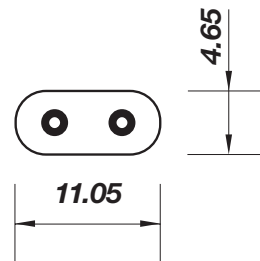
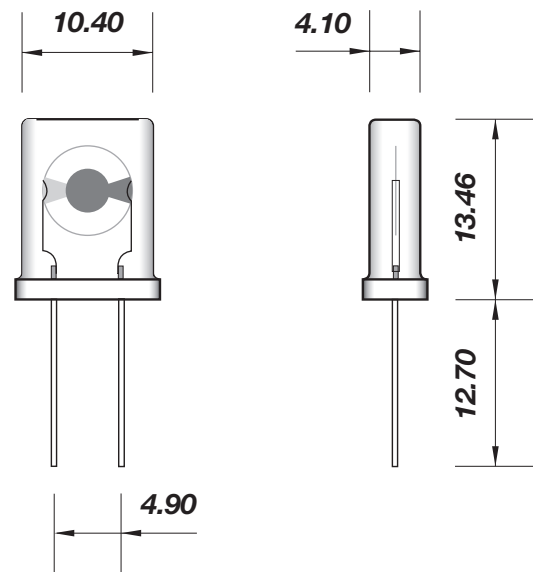
This holder can be used with SC cut, AT cut and IT cut resonators where high Q and low phase noise are desired parameters.

Custom specified with typical data as follows:

Specification data:

Environment	high vacuum
Quartz orientation	SC cut, AT cut and IT cut
Frequency range	(4 ~ 25)MHz fundamental (12 ~ 70)MHz 3rd overtone (30 ~ 125)MHz 5th overtone (110 ~ 170)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	$(-40 + 200)^\circ\text{C}$ custom specified
Storage temperature	$(-40 + 160)^\circ\text{C}$
Load	custom specified
Shunt capacitance C_0	(1.5 ~ 6.5)pF
Suggested drive level	(5 ~ 150) μW
Q factor	up to 1 million, frequency, mode and cut dependent
Ageing - frequency dependent	AT cut: ± 1 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 0.43