

The MIL standard HC-37/U cold weld enclosure is ideally suited for the manufacture of precision SC cut and AT cut high reliability resonators. Available in a choice of three case heights.

A wide frequency range combined with a high vacuum environment makes this an ideal choice for high Q applications.

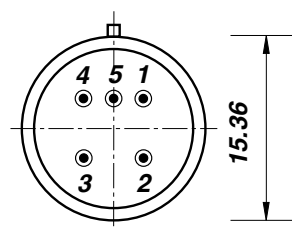
The four point mount provides excellent shock and vibration performance with good immunity to G sensitivity.

Custom specified with typical data as follows:

Specification data:

Environment	high vacuum
Quartz orientation	SC cut and AT cut
Frequency range	(3 ~ 25)MHz fundamental (5 ~ 70)MHz 3rd overtone (50 ~ 120)MHz 5th overtone
Adjustment tolerance	from ± 1.5 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	$(-55 + 125)^{\circ}\text{C}$ custom specified
Storage temperature	$(-40 + 125)^{\circ}\text{C}$ custom specified
Load	custom specified
Shunt capacitance C_0	(1.5 ~ 8.0)pF
Suggested drive level	(5 ~ 150) μW
Q factor	up to 2 million, frequency, mode and cut 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.

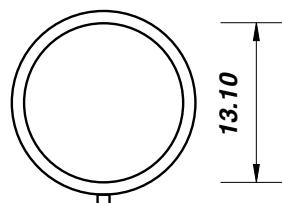
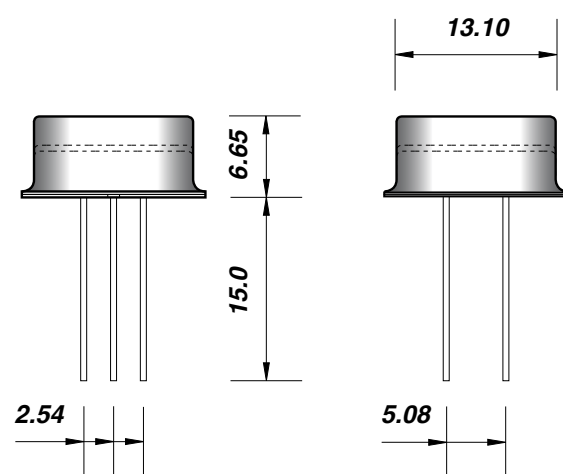
Dimensions(mm):



pin connections

- 1 crystal
- 2 N/C
- 3 crystal
- 4 N/C
- 5 case/ground

pins viewed from bottom
diameter 0.46mm



case available in three heights:

- standard 6.65mm
- intermediate 4.40mm
- low profile 3.91mm