

The MIL standard HC-35/U cold weld enclosure ideally suited for the manufacture of precision SC cut and AT cut high reliability resonators. Available in standard or low profile height.

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

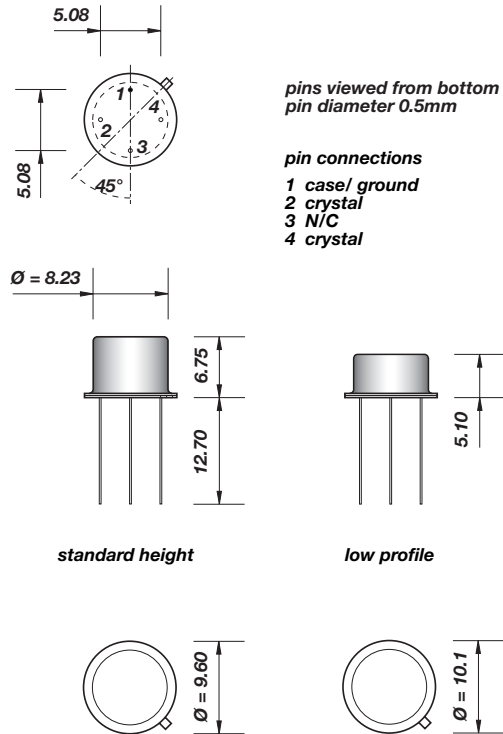
The four point mount provides excellent shock and vibration performance with good immunity to G sensitivity.

Custom specified with typical data as follows:

Specification data:

Environment	high vacuum
Quartz orientation	SC cut and AT cut
Frequency range	(6 ~ 30)MHz fundamental (20 ~ 100)MHz 3rd overtone (60 ~ 130)MHz 5th overtone (100 ~ 200)MHz 7th overtone
Adjustment tolerance	from ± 2 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	$(-40 \sim +150)^{\circ}\text{C}$ custom specified
Storage temperature	$(-40 \sim +125)^{\circ}\text{C}$
Load	custom specified
Shunt capacitance C₀	(1.5 ~ 6.5)pF
Suggested drive level	(5 ~ 150) μW
Q factor	up to 400,000, frequency, mode and cut dependent
Ageing - frequency dependent	AT cut: ± 1 ppm typical, first year max. SC cut: ± 0.3 ppm typical, first year max.
Insulation resistance	500Meg. Ω min. at 100Vd.c.

Dimensions(mm)



pins viewed from bottom
pin diameter 0.5mm

pin connections

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

standard height

low profile