

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.

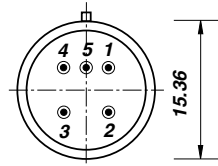
The four point mount provides excellent shock and vibration performance with good immunity to G sensitivity.

Custom specified with typical data as follows:

**Specification data:**

<b>Environment</b>	high vacuum
<b>Quartz orientation</b>	SC cut and AT cut
<b>Frequency range</b>	(3 ~ 25)MHz fundamental (5 ~ 70)MHz 3rd overtone (50 ~ 120)MHz 5th overtone
<b>Adjustment tolerance</b>	from $\pm 1.5$ ppm at ref. temp. frequency dependent
<b>Thermal stability</b>	OCXO turn point from $\pm 3^{\circ}\text{C}$ TCXO from $\pm 0.5^{\circ}$ equivalent $\emptyset$ angle XO from $\pm 3$ ppm temperature dependent
<b>Operating temperature</b>	$(-55 + 125)^{\circ}\text{C}$ custom specified
<b>Storage temperature</b>	$(-40 + 125)^{\circ}\text{C}$ custom specified
<b>Load</b>	custom specified
<b>Shunt capacitance <math>C_0</math></b>	(1.5 ~ 8.0)pF
<b>Suggested drive level</b>	(5 ~ 150) $\mu\text{W}$
<b>Q factor</b>	up to 2 million, frequency, mode and cut dependent
<b>Ageing - frequency dependent</b>	AT cut: $\pm 0.5$ ppm typical, first year max. SC cut: $\pm 0.2$ ppm typical, first year max.
<b>Insulation resistance</b>	500Meg. $\Omega$ min. at 100Vd.c.

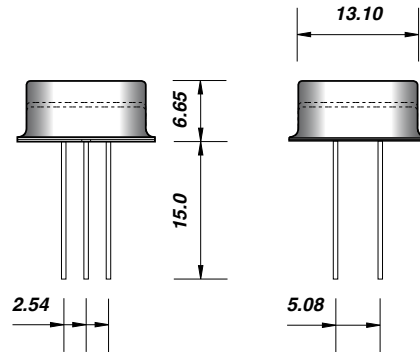
**Dimensions(mm)**



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

