cold weld HC-47/U *February 29th 2012*

The MIL standard HC-47/U cold weld enclosure is ideally suited for the manufacture of precision SC cut and AT cut high reliability resonators.

The larger volume of this package allows for a lower frequency of operation and a higher order of overtone for ultimate performance.

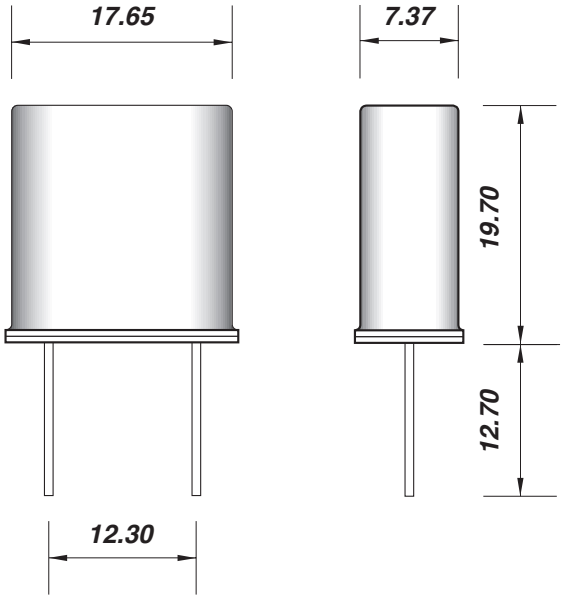
A high vacuum environment provides the best conditions for long term ageing and a high Q factor.

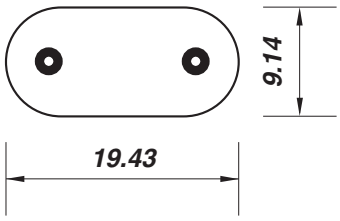
Custom specified with typical data as follows:

Specification data:

Environment	*high vacuum*
Quartz orientation	*AT, SC and IT cut*
Frequency range	*(2 ~ 25)MHz fundamental* *(5 ~ 75)MHz 3rd overtone* *(15 ~ 125)MHz 5th overtone*
Adjustment tolerance	*from ±3.0ppm at ref. temp.* *frequency dependent*
Thermal stability	*OCXO turn point from ±3°C* *TCXO from ±0.5´* *equivalent Ø angle* *XO from ±3ppm* *temperature dependent*
Operating temperature	*(-55 +105)°C* *custom specified*
Storage temperature	*(-40 +105)°C*
Load	*custom specified*
Shunt capacitance C_o	*(3.0 ~ 8.5)pF*
Suggested drive level	*(5 ~ 150)µW*
Q factor	*up to 2 million, frequency, mode and cut dependent*
Ageing - frequency dependent	*AT cut: ±0.5ppm typical, first year max.* *SC cut: ±0.2ppm typical, first year max.*
Insulation resistance	*500Meg. Ω min.* *at 100Vd.c.*

Dimensions(mm):





lead diameter 0.76

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