

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:

high vacuum **Environment** AT, SC and IT cut **Quartz orientation**

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 $(3.0 \sim 8.5)pF$

Suggested drive level $(5 \sim 150)\mu W$ Q factor up to 2 million, frequency,

mode and cut dependent Ageing - frequency AT cut: ±0.5ppm typical, first

dependent year max.

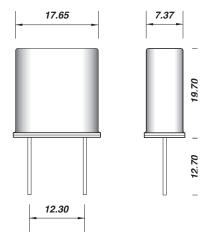
SC cut: ±0.2ppm typical, first

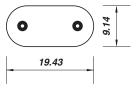
year max.

Insulation resistance 500Meg. Ω min.

at 100Vd.c.

Dimensions(mm)







ISO9001: 2008

A1511CAN