cold weld HC-43/U

February 29th 2012

The MIL standard HC-43/U, cold weld enclosure is ideally suited for the manufacture of high quality precision SC cut and AT cut high reliability resonators. IT cut resonators may also be provided in this enclosure.

Comparatively large quartz blanks can be accommodated into this case resulting in lower esr values and good crystal activity.

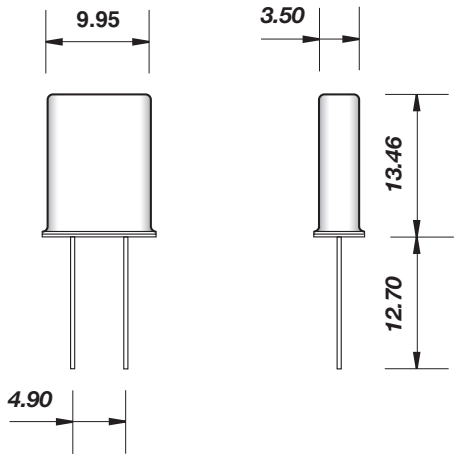
The cold weld sealing process contributes almost zero contaminants and combined with a high a vacuum environment results in exceptional long term ageing and high Q factors.

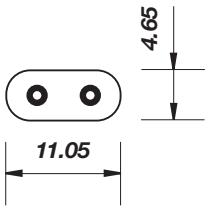
Custom specified with typical data as follows:

Specification data:

Environment	*high vacuum*
Quartz orientation	*SC, AT and IT cut*
Frequency range	*(3 ~ 35)MHz fundamental* *(10 ~ 110)MHz 3rd overtone* *(30 ~ 170)MHz 5th overtone* *(110 ~ 200)MHz 7th overtone*
Adjustment tolerance	*from ±1.5ppm 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 +120)°C*
Load	*custom specified*
Shunt capacitance C_o	*(1.5 ~ 6.5)pF*
Suggested drive level	*(5 ~ 150)µW*
Q factor	*up to 1300K, 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.*

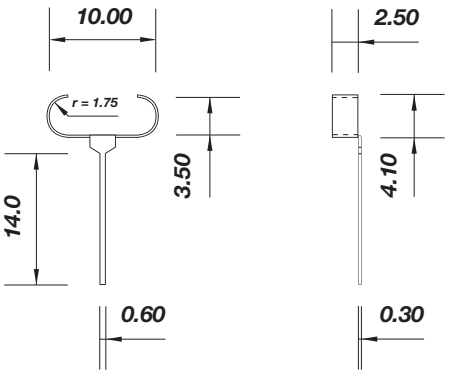
Dimensions(mm):





lead diameter 0.43

accessory: crystal grounding clip, hot tin-dipped brass. RoHS compliant



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