

The UM-1 slimline resistance weld enclosure is ideally suited for the manufacture of precision AT cut high reliability resonators.

A wide frequency range combined with a dry nitrogen environment makes this a very good choice for applications requiring miniature high quality resonators at an economic price.

Used extensively in oscillators where insufficient clearance is available to accommodate the standard UM-1.

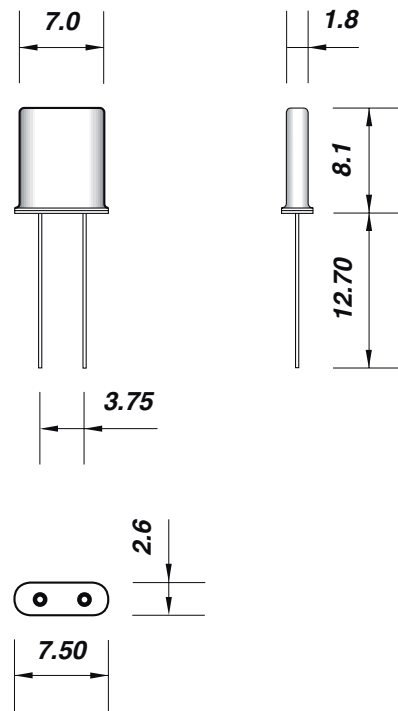
The reduced package dimensions improve thermal transmission making them perfect for TCXO and OCXO applications.

Custom specified with typical data as follows:

Specification data:

Environment	dry nitrogen
Quartz orientation	AT cut
Frequency range	(6 ~ 35)MHz fundamental (15 ~ 110)MHz 3rd overtone (50 ~ 175)MHz 5th overtone (110 ~ 200)MHz 7th overtone
Adjustment tolerance	from ± 3.0 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	$(-55 + 125)^{\circ}\text{C}$ custom specified
Storage temperature	$(-40 + 125)^{\circ}\text{C}$ custom specified
Load	custom specified
Shunt capacitance C_0	(1.5 ~ 6.5)pF
Suggested drive level	(5 ~ 150) μW
Q factor	up to 200K, frequency, and mode dependent
Ageing - frequency dependent	± 0.5 ppm typical, first year max.
Insulation resistance	500Meg. Ω min. at 100Vd.c.

Dimensions(mm)



lead diameter 0.35