

A miniature resistance weld package which can be preformed into smd formats.

The UM-1 resistance weld enclosure is ideally suited for the manufacture of precision AT cut high reliability resonators. Available in a choice of three case style variants.

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

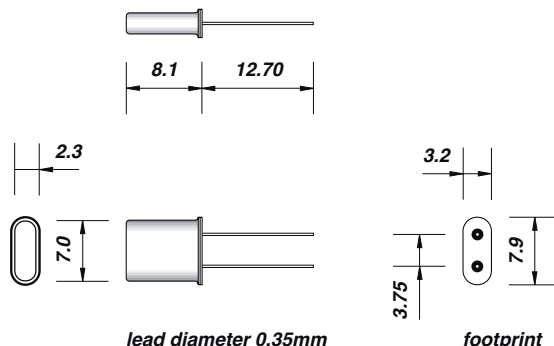
Custom specified with typical data as follows:

### Specification data:

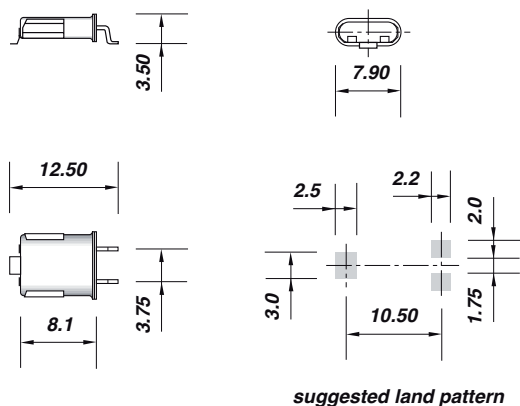
<b>Environment</b>	dry nitrogen
<b>Quartz orientation</b>	AT cut
<b>Frequency range</b>	(6 ~ 35)MHz fundamental (15 ~ 110)MHz 3rd overtone (50 ~ 175)MHz 5th overtone (110 ~ 200)MHz 7th overtone
<b>Adjustment tolerance</b>	from $\pm 3.0$ ppm at ref. temp. frequency dependent
<b>Thermal stability</b>	OCXO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

### Dimensions(mm):

#### UM-1



#### UM-1-smd



#### UM-1-smr

