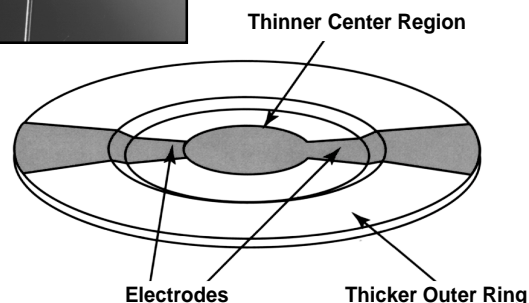
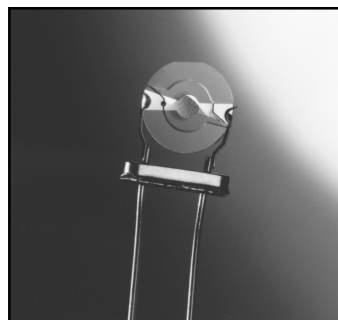


### Features:

- Frequency Range 30-300 MHz
- HC-45 or HC-35 enclosures
- High Motional Capacitance
- Superior unwanted mode suppression
- Thru-hole or surface mount formed leads
- Small package; rugged construction

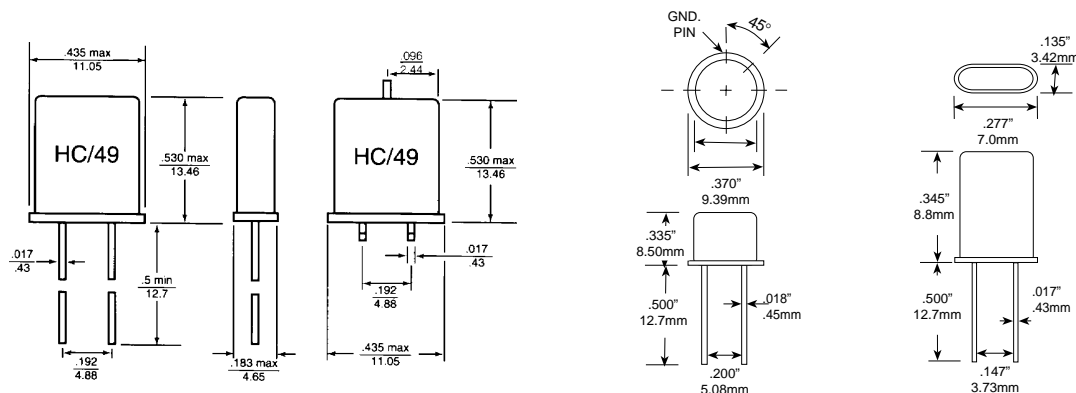


Inverted Mesa Technology uses CTS Reeves proprietary methods to achieve extremely thin (but still mechanically rugged) resonators at high frequencies for options not previously available to VCXO and filter designers. Previously, high frequency resonators required overtone crystals with their low C1 and significant unwanted modes, but now fundamental resonators to 160 MHz and 3rd O.T. up to 300 MHz opens a new era for filtering and FM circuit design.

### Electrical Specifications:

Frequency MHz	Overtone Mode	Max R ohms	Std Cal Tol PPM @25°	Typ C <sub>1</sub> fF	Typ C <sub>0</sub> pF
30-40	Fund.	20	±20	5-15	2-5
41-70	Fund.	25	±25	5-12	2-4
71-100	Fund.	30	±30	4-8	1.5-3.0
101-160	Fund.	35	±35	3-6	1.0-2.5
90-160	3rd	80	±25	.25-.60	1.5-3.5
161-300	3rd	100	±30	.25-.60	1.0-3.0

## Outline Drawing - Solder Pad Dimensions:



## Mechanical Specifications

### Package Type

Metal cover, Hermetic seal base,  
resistance weld or coldweld seal.

### Hermeticity

<1x10<sup>-8</sup> std.cc/sec/atm

### Mechanical Shock

1000G/1msec; # blows ea axis;  
<5PPM shift F; <10% shift R

### Vibration

10G/10-500 hz, 2hrs duration,  
<5PPM shift F; <10% shift R;

### Solderability

63/37 solder @ 245°C for 5 sec; RMA flux;  
>95% coverage

### Storage Temperature

-55+105°C (solderability will deteriorate in  
high temp or humidity)

### Insulation Resistance

>500 Mohm @ 100v

## Ordering Information:

<b>Sealing Method</b>					<b>Temperature Range</b>		
R = Resistance weld					A = 0° to 70°C		
K = Coldweld					B = -40° to 85°C		
					D = special*		
	<b>Mode</b>	<b>25°C Calibration</b>	<b>Stability Over Temp.</b>				
	1 = Fundamental	1 = ±10 ppm	1 = ±10 ppm				
	3 = 3rd O.T.	2 = ±20 ppm	2 = ±20 ppm				
		3 = ±30 ppm	3 = ±30 ppm				
		4 = ±40 ppm	4 = ±40 ppm				
		5 = ±50 ppm	5 = ±50 ppm				
		6 = ±100 ppm	6 = ±100 ppm				