

Helping Customers Innovate, Improve & Grow

**Table 1. Electrical Performance**

Parameter	Symbol	Min.	Typ	Max	Units
Nominal Frequency	$F_{NOM}$	1.536		150.000	MHz
Mode		Fundamental, 3rd Overtone			
Operating Temperature Range	$T_{OP}$	0/70, -10/70, -20/70, -40/85			°C
Stability Over $T_{OP}^1$	$F_{STAB}$	±10		±100	ppm
Frequency Tolerance <sup>2</sup>	$F_{TOL}$		±10		ppm
Load Capacitance	$C_L$	6		32	pF
Shunt Capacitance	$C_o$			5	pF
Drive Level			10	100	uW
Aging / 1st year (at 25 °C)	$F_{AGE}$			±5	ppm
Insulation Resistance		500			MOhm
Storage Temperature	$T_{STO}$	-40		90	°C
<b>Equivalent Series Resistance</b>					
Crystal Frequency	ESR				Ohm
1.536MHz-2.000MHz				500	
2.001MHz-2.456MHz				450	
2.457MHz-3.000MHz				350	
3.001MHz-4.000MHz				90	
4.001MHz-5.000MHz				70	
5.001MHz-8.000MHz				60	
8.001MHz-10.000MHz				30	
10.001MHz-50.000MHz, fundamental				25	
24.000MHz-150.000MHz, 3rd Overtone				40	

Notes:

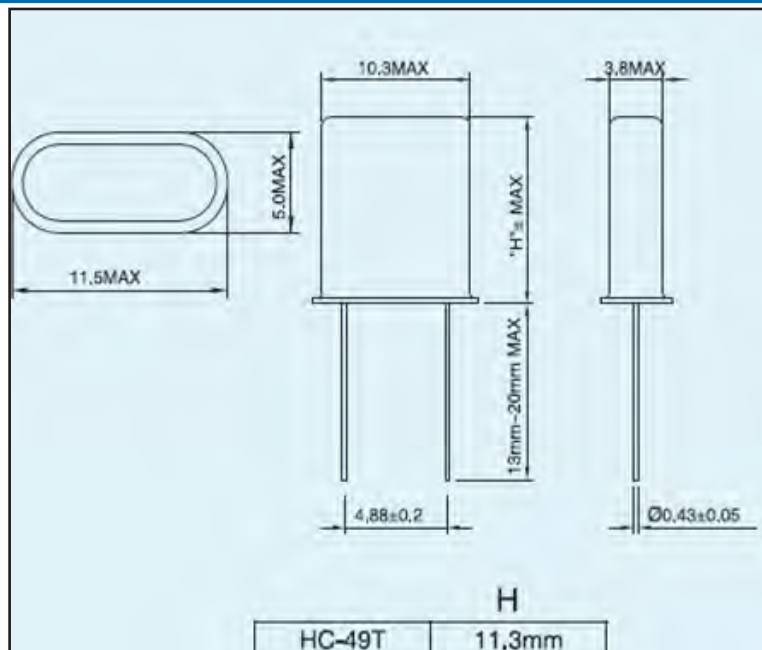
1. Referenced to the Frequency at 25 °C.

2. Frequency measured at 25 °C ± 3 °C.

Product is compliant to RoHS directive and fully compatible with lead free assembly.



## Package Drawing



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