

**PART NUMBERING GUIDE** **Environmental/Mechanical Specifications on page F5**

**C A 32 C 3 - 30.000MHz**

<p><b>Package</b></p> <p>C =HC49/US SMD (4.50mm max. ht.) CS=HC49/US SMD (3.50mm max. ht.) CR=HC49/US SMD (3.20mm max. ht.)</p> <p><b>Tolerance/Stability</b></p> <p>A=±50/100      N=±5/10 B=±30/50 C=±15/30 D=±15/50 E=±25/30 F=±25/50 G=±10/30 H=±20/20 J=± 30/30 K=±20/20 L=±10/25 M=±15/15</p>	<p><b>Mode of Operation</b></p> <p>1=Fundamental (over 25.000MHz AT and BT Cut Available) 3=Third Overtone, 5=Fifth Overtone</p> <p><b>Operating Temperature Range</b></p> <p>C=0°C to 70°C E=-20°C to 70°C F=-40°C to 85°C</p> <p><b>Load Capacitance</b></p> <p>S=Series, XX=XXpF (Pico Farads)</p>
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**ELECTRICAL SPECIFICATIONS** **Revision: 1994-F**

<b>Frequency Range</b>	3.579545MHz to 100.000MHz
<b>Frequency Tolerance/Stability</b> A, B, C, D, E, F, G, H, J, K, L, M	See above for details! Other Combinations Available. Contact Factory for Custom Specifications.
<b>Operating Temperature Range</b> "C" Option, "E" Option, "F" Option	0°C to 70°C, -20°C to 70°C, -40°C to 85°C
<b>Aging</b>	±5ppm / year Maximum
<b>Storage Temperature Range</b>	-55°C to 125°C
<b>Load Capacitance</b> "S" Option "XX" Option	Series 10pF to 50pF
<b>Shunt Capacitance</b>	7pF Maximum
<b>Insulation Resistance</b>	500 Megaohms Minimum at 100Vdc
<b>Drive Level</b>	2mWatts Maximum, 100uWatts Correlation
<b>Solder Temp. (max) / Plating / Moisture Sensitivity</b>	260°C / Sn-Ag-Cu / None

**EQUIVALENT SERIES RESISTANCE (ESR)**

Frequency (MHz)	ESR (ohms)	Frequency (MHz)	ESR (ohms)	Frequency (MHz)	ESR (ohms)
3.579545 to 4.999	120	9.000 to 12.999	50	26.000 to 39.999	100 (3rd OT)
5.000 to 5.999	80	13.000 to 19.000	40	40.000 to 75.000	80 (3rd OT)
6.000 to 6.999	70	20.000 to 29.000	30		
7.000 to 8.999	60	30.000 to 50.000 (BT Cut)	40		

**MECHANICAL DIMENSIONS** **Marking Guide**

All Dimensions in mm.

**12.000CYM**

12.000 = Frequency  
C = Caliber Electronics Inc.  
YM = Date Code (Year/Month)