

PART NUMBERING GUIDE

Environmental/Mechanical Specifications on page F5

B A 32 C 3 - 30.000MHz - I - AT

Package
 B =HC49/US (3.68mm max. ht.)
 BT=HC49/US (2.50mm max. ht.)
 BR=HC49/US (2.00mm max. ht.)

Tolerance/Stability
 A=±50/100 N=±10/10ppm
 B=±30/50 P=±20/30ppm
 C=±15/30
 D=±15/50
 E=±25/30
 F=±25/50
 G=±10/30
 H=±20/20
 J=± 5/10
 K=±20/20
 L=±10/25
 M=±15/15

Configuration Options
 I=Insulator Tab, TR=Tape and Reel (ammo for thru-hole), L=Third Lead
 L3=Third Lead/Base Mount, V=Vinyl Sleeve, AT=Cut of Quartz
 SP=Spring Mount, G=Gull Wing, G1=Gull Wing/Metal Jacket

Mode of Operation
 1=Fundamental (over 25.000MHz AT and BT Cut Available)
 3=Third Overtone, 5=Fifth Overtone

Operating Temperature Range
 C=0°C to 70°C
 E=-20°C to 70°C
 F=-40°C to 85°C

Load Capacitance
 S=Series, XX=XXpF (Pico Farads)

ELECTRICAL SPECIFICATIONS

Revision: 1994-D

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| Frequency Range | 3.579545MHz to 100.000MHz |
| Frequency Tolerance/Stability A, B, C, D, E, F, G, H, J, K, L, M | See above for details! Other Combinations Available. Contact Factory for Custom Specifications. |
| Operating Temperature Range "C" Option, "E" Option, "F" Option | 0°C to 70°C, -20°C to 70°C, -40°C to 85°C |
| Aging | ±5ppm / year Maximum |
| Storage Temperature Range | -55°C to 125°C |
| Load Capacitance "S" Option "XX" Option | Series 10pF to 50pF |
| Shunt Capacitance | 7pF Maximum |
| Insulation Resistance | 500 Megohms Minimum at 100Vdc |
| Drive Level | 2mWatts Maximum, 100uWatts Correlation |
| Solder Temp. (max) / Plating / Moisture Sensitivity | 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 | 200 | 9.000 to 9.999 | 80 | 24.000 to 30.000 | 40 (AT Cut Fund) |
| 5.000 to 5.999 | 150 | 10.000 to 14.999 | 70 | 24.000 to 50.000 | 40 (BT Cut Fund) |
| 6.000 to 7.999 | 120 | 15.000 to 15.999 | 60 | 24.576 to 29.999 | 100 (3rd OT) |
| 8.000 to 8.999 | 90 | 16.000 to 23.999 | 40 | 30.000 to 60.000 | 100 (3rd OT) |

MECHANICAL DIMENSIONS

Marking Guide

All Dimensions in mm.

12.000CYM

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