

**PART NUMBERING GUIDE**

**Environmental/Mechanical Specifications on page F5**

**G A 32 C 3 - 65.000MHz - I**

**Package**  
G =UM-1 (8.1mm max. ht.)  
H4=UM-4 (4.7mm max. ht.)  
H5=UM-5 (6.0mm max. ht.)

**Tolerance/Stability**  
A=±50/100  
B=±30/50  
C=±15/30  
D=±15/50  
E=±25/30  
F=±25/50  
G=±10/30  
H=±5/10 (0°C to 50°C)  
I = ±10/15

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

**Mode of Operation**  
1=Fundamental  
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-B

<b>Frequency Range</b>	10.000MHz to 150.000MHz
<b>Frequency Tolerance/Stability</b> A, B, C, D, E, F, G, H	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 @ 25°C</b>	±1ppm / year Maximum, ±3ppm / year Maximum, ±5ppm / year Maximum
<b>Storage Temperature Range</b>	-55°C to 125°C
<b>Load Capacitance</b> "S" Option "XX" Option	Series 8pF to 50pF
<b>Shunt Capacitance</b>	7pF Maximum
<b>Insulation Resistance</b>	500 Megaohms Minimum at 100Vdc
<b>Drive Level</b>	10.000 to 15.999MHz = 50uW Maximum 16.000 to 40.000MHz = 10uW Maximum 30.000 to 150.000MHz (3rd of 5th OT) = 100uW Maximum

**EQUIVALENT SERIES RESISTANCE (ESR)**

Frequency (MHz)	ESR (ohms)	Frequency (MHz)	ESR (ohms)
10.000 to 15.999 (UM-1)	50 (fund)	10.000 to 15.999 (UM-4,5)	50 (fund)
16.000 to 40.000 (UM-1)	40 (fund)	16.000 to 40.000 (UM-4,5)	50 (fund)
30.000 to 90.000 (UM-1)	70 (3rd OT)	30.000 to 90.000 (UM-4,5)	80 (3rd OT)
70.000 to 150.000 (UM-1)	100 (5th OT)	70.000 to 150.000 (UM-4,5)	120 (5th OT)

**MECHANICAL DIMENSIONS**

**Marking Guide**

All Dimensions in mm.

Line 1: Caliber  
Line 2: Part Number  
Line 3: Frequency  
Line 4: Date Code