

PART NUMBERING GUIDE

Environmental/Mechanical Specifications on page F5

Package		CEI309 B 32 C 3 - 48.000MHz	Mode of Operation
CEI310 = 3.2mm X 10.5mm Maximum / Cylindrical Crystal			1=Fundamental
CEI309 = 3.2X9.0mm Maximum / Cylindrical Crystal			3=Third Overtone
Tolerance/Stability			Operating Temperature Range
A=±30/50			C=-10°C to 60°C
B=±50/50			E=-20°C to 70°C
C=±30/30			Load Capacitance
			S=Series, XX=XXpF (Pico Farads)

ELECTRICAL SPECIFICATIONS

Revision: 1996-D

Frequency Range	3.5.000MHz to 70.000MHz (3.5000MHz to 4.000MHz = 310 Series ONLY)
Frequency Tolerance/Stability "A" Option "B" Option "C" Option	Other Combinations Available. Contact Factory for Custom Specifications. ±30/50ppm Max. ±50/50ppm Max. ±30/30ppm Max.
Operating Temperature Range "C" Option "E" Option	-10°C to 60°C -20°C to 70°C
Storage Temperature Range	-55°C to 125°C
Load Capacitance "S" Option "XX" Option	Series 18pF (Contact factory for other load capacitances)
Mode of Operation Fundamental "1" Option Third Overtone "3" Option	4.001MHz to 32.000MHz 30.000MHz to 70.000MHz
Drive Level	2mWatts Maximum, 100uWatts Correlation

EQUIVALENT SERIES RESISTANCE (ESR)

Frequency Range (MHz)	ESR (ohms)	Mode / Cut
3.500 to 4.000	200	Fundamental / AT
4.000 to 6.000	150	Fundamental / AT
6.000 to 10.000	100	Fundamental / AT
10.000 to 32.000	50	Fundamental / AT
30.000 to 36.000	100	3rd OT / AT
36.000 to 70.000	80	3rd OT / AT

MECHANICAL DIMENSIONS

Marking Guide on page F3-F4

Package	L
CEI310 Series	10.3 Max
CEI309 Series	9.0 Max

All Dimensions in mm.