



BX53 SERIES CRYSTAL - 5.0 x 3.2 x 1.0mm

Frequency Range	8.000MHz to 150.000MHz
Overtone	Fundamental , 3OT
Motional Resistance (ESR)	See Table Below
Load Capacitance (CL)	Standard (9pF,10pF,12pF) User Spec
Shunt Capacitance	7pF max
Drive Level (DL)	10μW(Standard), 500μW max
Frequency Tolerance (25 °C)	±10 ppm to ±25 ppm
Frequency Stability	±10 ppm to ±50 ppm (See Table Below)
Operating Temperature Range	-20 °C to +70°C or -40 °C to +85°C
Storage Temperature Range	-40 °C to +85°C
Aging	±3 ppm per year max

MOTIONAL RESISTANCE (ESR)

Frequency (MHz)	8.000 < 12.000	12.001 < 20.000	20.001 < 50.000	40.000 < 150.000
CI (Ω) Overtone	100 - Fundamental	60 - Fundamental	40 - Fundamental	80 - 3OT

PART NUMBERING GUIDE

Series	Tolerance	Temperature Range/Stability	Load	Freq
BX53	±10ppm = 1	-20 °C to +70°C/ ±15ppm = A	09 = 9pF	30M000
	±15ppm = 2	-20 °C to +70°C/ ±20ppm = B	10 = 10pF	
	±20ppm = 3	-20 °C to +70°C/ ±25ppm = C	12 = 12pF	
	±25ppm = 4	-20 °C to +70°C/ ±30ppm = D	XX = Choice pF	
		-20 °C to +70°C/ ±50ppm = E		
		-40 °C to +85°C/ ±15ppm = F		
		-40 °C to +85°C/ ±20ppm = G		
		-40 °C to +85°C/ ±25ppm = H		
		-40 °C to +85°C/ ±30ppm = J		
		-40 °C to +85°C/ ±50ppm = K		

For other Tolerance, Stability, and Temperature options please consult factory

Example P/N: BX53 – 1 – B – 10 – 30M000

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MECHANICAL DRAWING

