



BFC32 CRYSTAL SERIES

3.2 x 2.5 x 0.7mm CERAMIC SMD PACKAGE



Features:

- 10.0 to 60.0 MHz Frequency Range
- AT – Cut Fundamental Crystal
- Sealed SMD Package
- Metal Case Sealed On A Ceramic Board
- Ultra Thin Thickness (0.8mm)
- **RoHS Compliant**
- Extended Temperature Ranges Available
- Industry Standard Footprint
- Ultra Miniature (3.2 x 2.5 x 0.8mm Height Max.)
- Solder Reflow Is Possible
- High Precision and Excellent Aging and Solderability
- Equivalent to [KDS DSX321G](#); [Raltron RH100](#)

ELECTRICAL SPECIFICATIONS

Frequency Range	10.0 to 60.0 Mhz
Resonance Mode	At Cut, Fundamental
Frequency Stability Over temperature Range	± 50ppm, ± 30ppm, ± 10ppm or Specify
Frequency Tolerance Ref @ 25°C	± 50ppm, ±30ppm, ± 10ppm or Specify
Temperature Range	0-70°C, -10+70°C, -40+85°C
Crystal Aging	± 5ppm / year Maximum
Storage Temperature	-40+85°C
Shunt Capacitance	5.0pF Max.
Load Capacitance (CL)	8pF, 12pF or Specify
Drive Level	0.1 mW Maximum

Maximum Equivalent Series Resistance

Frequency Range	ESR (Ohms)	Mode	Frequency Range	ESR (Ohms)	Mode
10.0 to 12.9 MHz	100.0	Fundamental	21.0 to 29.9 MHz	60.0	Fundamental
13.0 to 15.9 MHz	80.0	Fundamental	30.0 to 60.0 MHz	50.0	Fundamental
16.0 to 20.9 MHz	70.0	Fundamental			

Part Numbering System

Model	Frequency	Load (Cl)	Tolerance @ 25°C	Stability over Temp. Range	Operate Temp.
BFC 32	143 = 14.31818	S = Series	5 = ± 50ppm	5 = ± 50ppm	A = 0-70°C
Click here for Standard Crystal Frequencies Abbreviations Page		10pF-32pF	3 = ± 30ppm	3 = ± 30ppm	D = -40+85°C
			25 = ± 25ppm	25 = ± 25ppm	G = -10+70°C
			20 = ± 20ppm	20 = ± 20ppm	
			15 = ± 15 ppm	15 = ± 15 ppm	
			1 = ± 10 ppm	1 = ±10ppm	

DIMENSIONS (UNIT:mm))

