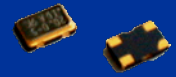


BFC64 CRYSTAL SERIES

6.0 x 3.5 x 1.1mm SMD CERAMIC PACKAGE

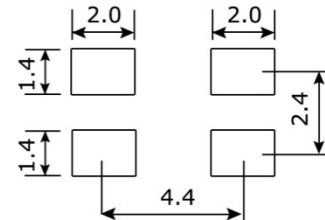
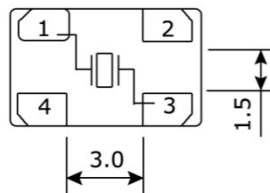
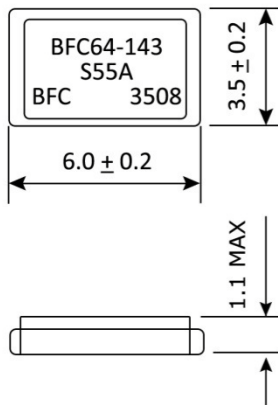


Features:

- 12.0 MHz – 150.0 MHz Frequency Range
- AT-cut Crystal
- SMD Ceramic Package
- **RoHS Compliant (Pb Free)**
- Extended Temperature Range Available
- Industry Standard Footprint
- Ultra Miniature (6.0 x 3.5mm with 1.1mm Height Max.)
- High Precision and Excellent Aging and Solderability

ELECTRICAL SPECIFICATIONS					
Frequency Range	12.0 MHz to 150.0 MHz				
Resonance Mode	Fundamental (12.0-50 MHz), 3 rd OT (40 – 90 MHz), 5 th OT (90 – 150 MHz)				
Calibration Tolerance @ 25°C	± 50ppm, ± 30ppm, ± 20ppm, ± 15ppm, ± 10ppm				
Frequency Stability Ref @ 25°C	± 50ppm, ± 30ppm, ± 10ppm, ± 5ppm				
Temperature Range	0-70°C, -10+60°C, -20+70°C, -40+85°C,				
Crystal Aging	± 5ppm / Year Maximum				
Storage Temperature	-40+85°C				
Shunt Capacitance	< 7.0pF				
Load Capacitance	10pF to 32pF (18pF Load Standard) or Series Resonant				
Drive Level	0.1mW Maximum				
Equivalent Series Resistance (Maximum)					
Frequency Range	ESR (Ohms)	Mode	Frequency Range	ESR (Ohms)	Mode
12.0 to 15.999 MHz	60.0	Fundamental	40.0 to 89.999 MHz	60.0	3 rd OT
16.0 to 19.999 MHz	40.0	Fundamental	90.0 to 150.0 MHz	120.0	5 th OT
20.0 to 50.0 MHz	30.0	Fundamental			
Part Numbering System					
Model	Frequency	Load (Cl)	Tolerance @ 25°C	Stability Over Temp. Range	Operate Temp.
BFC64	143= 14.31818	S = Series	5 = ± 50ppm	5 = ± 50ppm	A = 0-70°C
		10pF-32pF	3 = ± 30ppm	3 = ± 30ppm	B = -10+60°C
			2 = ± 20ppm	1 = ± 10ppm	C = -20+70°C
			6 = ± 15ppm	4 = ± 5ppm	D = -40+85°C
			1 = ± 10ppm		

Recommended Solder Pad Layout



All dimensions are typical unless otherwise specified

Dimensions in Millimeters