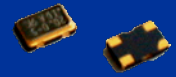


# BFC75 CRYSTAL SERIES

## 7 x 5 x 1.3mm SMD CERAMIC PACKAGE

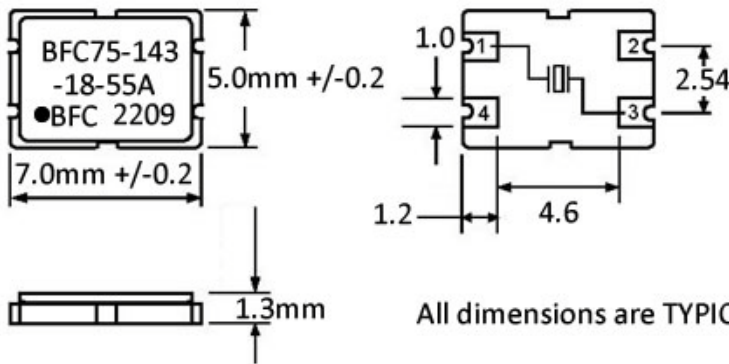


**Features:**

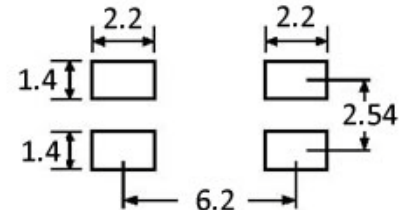
- 8 MHz to 150 MHz Frequency Range
- Compact Size SMD Ceramic Package (7x5x1.3 mm)
- Excellent Solderability
- **RoHS Compliant (Pb Free)**
- Extended Temperature Range Available
- Industry Standard Footprint
- AT-cut Crystal, High Precision
- Excellent Aging

ELECTRICAL SPECIFICATIONS					
Frequency Range	8.0 MHz to 150.0 MHz				
Resonance Mode	Fundamental (8.0-50 MHz), 3 <sup>rd</sup> OT (30 – 90 MHz), 5 <sup>th</sup> OT (70 – 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
8.0 to 9.999 MHz	80.0	Fundamental	20.0 to 50.0 MHz	30.0	Fundamental
10.0 to 15.999 MHz	60.0	Fundamental	30.0 to 90.0 MHz	60.0	3 <sup>rd</sup> OT
16.0 to 19.999 MHz	40.0	Fundamental	70.0 to 150.0MHz	100.0	5 <sup>th</sup> OT
Part Numbering System					
Model	Frequency	Load (Cl)	Tolerance @ 25°C	Stability Over Temp. Range	Operate Temp.
BFC75	143= 14.31818	S = Series	5 = ± 50ppm	5 = ± 50ppm	A = 0-70°C
<a href="#">Click Here for Standard Crystal Frequencies Abbreviations Page</a>		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		

### BFC75 SERIES MECHANICAL DRAWING



### RECOMENDED SOLDER PAD LAYOUT



All dimensions are TYPICAL and in mm