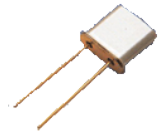




BFC CRYSTAL SERIES

UM-1 / UM1-SMD PACKAGE



Features:

- 3.6864 MHz – 225.0 MHz Frequency Range
- AT-cut Crystal
- Surface Mount Lead Forming Available
- RoHS Compliant
- Extended Temperature Range Available
- Industry Standard Footprint
- Optional Metal Jacket for SMT
- High Precision and Excellent Aging and Solderability

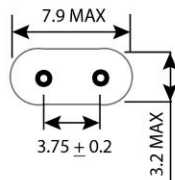
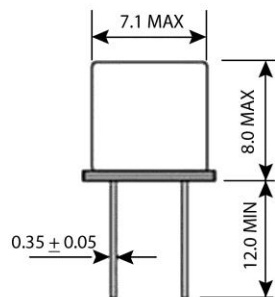
ELECTRICAL SPECIFICATIONS					
Frequency Range	3.6864 MHz to 225.0 MHz				
Resonance Mode	Fundamental	3 rd Overtone	5 th Overtone	7 th Overtone	
	3.6864 to 45.0 MHz	30.0 – 125.0 MHz	100 – 225 MHz	100 – 225 MHz	
Calibration Tolerance @ 25°C	± 50ppm	± 30ppm	± 20ppm	± 15ppm	± 10ppm
Frequency Stability Ref @ 25°C	± 100ppm	± 50ppm	± 25ppm	± 10ppm	
Temperature Range	0-70°C	-10+60°C	-20+70°C	-40+85°C	
Crystal Aging	± 5ppm / Year Maximum				
Storage Temperature	-55+125°C				
Shunt Capacitance	< 7.0pF				
Load Capacitance	6pF to 32pF (18pF Load Standard) or Series Resonant				
Drive Level	0.1mW typical and 1mW max.				

Equivalent Series Resistance					
Frequency Range	ESR (Ohms)	Mode	Frequency Range	ESR (Ohms)	Mode
3.686 to 3.999 MHz	250	Fundamental	10.0 to 10.999 MHz	60	Fundamental
4.0 to 4.999 MHz	200	Fundamental	11.0 to 45.000 MHz	40	Fundamental
5.0 to 5.999 MHz	150	Fundamental	30.0 to 125.0 MHz	45	3 rd Overtone
6.0 to 6.999 MHz	120	Fundamental	100.0 to 225.0 MHz	100	5 th Overtone
7.0 to 7.999 MHz	100	Fundamental	100.0 to 225.0 MHz	150	7 th Overtone
8.0 to 9.999 MHz	90	Fundamental			

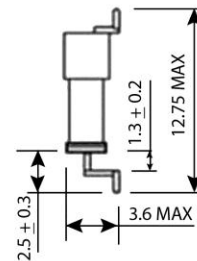
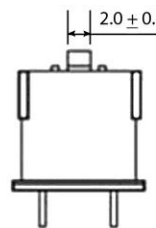
Part Numbering System								
Model	Frequency	Mode	Load (Cl)	Package	Option	Calibration Tolerance @ 25°C	Stability Reference @ 25°C	Operate Temp.
BFC	143*	Blank=Fund	S=Series	U1=UM1	G = Gull Wing	5 = ± 50ppm	0 = ± 100ppm	A = 0-50°C
		3 = 3 rd OT	6 to 32pF		Metal Jacketed	3 = ± 30ppm	5 = ± 50ppm	B = -10+60°C
		5 = 5 th OT				2 = ± 20ppm	25 = ± 25ppm	C = -20+70°C
		7 = 7 th OT				1 = ± 10ppm	1 = ± 10ppm	D = -40+85°C
						6 = ± 15ppm		

*Click Here for [Standard Crystal Frequencies Abbreviations Page](#)

Mechanical Drawing (Dimensions in mm)



Optional metal jacket with formed leads for UM1-SMD



All dimensions are typical unless otherwise specified

Dimensions in Millimeters