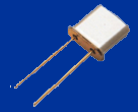


# BFC CRYSTAL SERIES

## UM-5 / UM-5SMD PACKAGE

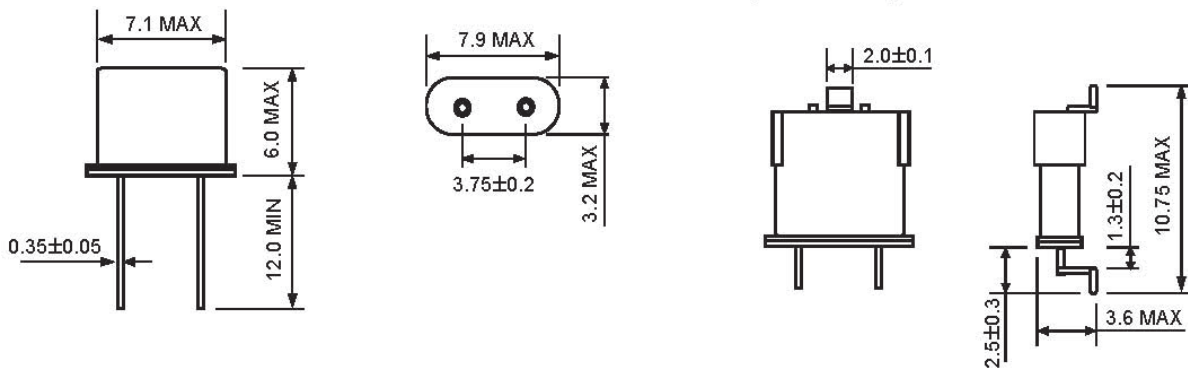


**Features:**

- AT-cut Crystal
- Wide Frequency Range Available
- Optional Metal Jacket for SMT
- Surface Mount Lead Forming(Gull Wing) Available
- RoHS Compliant
- Extended Temperature Range Available
- Industry Standard Pinout
- Compact Size with 6.0mm Height
- High Precision and Excellent Aging and Solderability

ELECTRICAL SPECIFICATIONS								
Frequency Range	10.0 to 225.0 MHz							
Resonance Mode	Fundamental	3 <sup>rd</sup> Overtone		5 <sup>th</sup> Overtone				
	10.0 to 45 MHz	30.0 to 125.0 MHz		100 – 225 MHz				
Calibration Tolerance @ 25°C	± 50ppm, ± 30ppm, ± 20ppm, ± 15ppm, ± 10ppm							
Frequency Stability Ref @ 25°C	± 100ppm, ± 50ppm, ± 25ppm, ± 10ppm							
Operating 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 (CL)	6pF to 32pF (18pF Load Standard) or Series Resonant							
Drive Level	0.1mW typical and 1mW max.							
Maximum Equivalent Series Resistance								
Frequency Range	ESR (Ohms)	Mode	Frequency Range	ESR (Ohms)	Mode			
10.0 to 10.999 MHz	60	Fundamental	100.0 to 225.0 MHz	80	5 <sup>th</sup> OverTone			
11.0 to 45.000 MHz	40	Fundamental	100.0 to 225.0 MHz	180	7 <sup>th</sup> OverTone			
30.0 to 125.0 MHz	60	3 <sup>rd</sup> OverTone						
Part Numbering System								
Model	Frequency	Mode	Load (Cl)	Package	Option	Calibration Tolerance @ 25°C	Frequency Stability Ref @ 25°C	Operating Temperature Range
BFC	143=14.31818	Blank = Fund.	S=Series	U5=UM5	G = Gull Wing Metal Jacketed	5 = ± 50ppm	0= ± 100ppm	A = 0-70°C
<a href="#">Click Here for Standard Crystal Frequencies Abbreviations Page</a>		3 = 3 <sup>rd</sup> OT	6-32=6-32pf			3 = ± 30ppm	5 = ± 50ppm	B=-10+60°C
		5 = 5 <sup>th</sup> OT				2 = ± 20ppm	25= ± 25ppm	C=-20+70°C
		7 = 7 <sup>th</sup> OT				1 = ± 15ppm	1 = ± 10ppm	D=-40+85°C
						1 = ± 10ppm		

Optional metal jacket with formed leads for UM5-SMD



All dimensions are typical unless otherwise specified

Dimensions in Millimeters