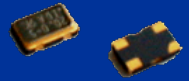


# BFC64B CRYSTAL SERIES

## 6.0 x 3.7 x 1.2mm 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 3.7mm with 1.2mm 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 <sup>rd</sup> OT (40 – 90 MHz), 5 <sup>th</sup> 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               | 6pF 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 <sup>rd</sup> OT |
| 16.0 to 19.999 MHz                     | 40.0       | Fundamental | 90.0 to 150.0 MHz  | 120.0      | 5 <sup>th</sup> 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. |
| BFC64B                | 143= 14.31818 | S = Series | 5 = ± 50ppm      | 5 = ± 50ppm                | A = 0-70°C    |
|                       |               | 6pF-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      |                            |               |

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

