



## BX63 SERIES CRYSTAL - 6.0 x 3.5 x 1.2mm

|                             |                                      |
|-----------------------------|--------------------------------------|
| Frequency Range             | 6.000MHz to 150.000MHz               |
| Overtone                    | Fundamental , 3OT                    |
| Motional Resistance (ESR)   | See Table Below                      |
| Load Capacitance (CL)       | Standard (9pF,10pF,12pF) User Spec   |
| Shunt Capacitance           | 7pF max                              |
| Drive Level (DL)            | 10μW(Standard), 500μW max            |
| Frequency Tolerance (25 °C) | ±10 ppm to ±25 ppm                   |
| Frequency Stability         | ±10 ppm to ±50 ppm (See Table Below) |
| Operating Temperature Range | -20 °C to +70°C or -40 °C to +85°C   |
| Storage Temperature Range   | -40 °C to +85°C                      |
| Aging                       | ±3 ppm per year max                  |

### MOTIONAL RESISTANCE (ESR)

| Frequency (MHz) | 6.0 < 10    | 10.001 < 20 | 20.001 < 40 | 40.001 < 50              | 50.001 < 85 | 85.001 < 150 |
|-----------------|-------------|-------------|-------------|--------------------------|-------------|--------------|
| CI (Ω)          | 70          | 50          | 40          | 80                       | 50          | 40           |
| Overtone        | Fundamental |             |             | 3 <sup>rd</sup> Overtone |             |              |

### PART NUMBERING GUIDE

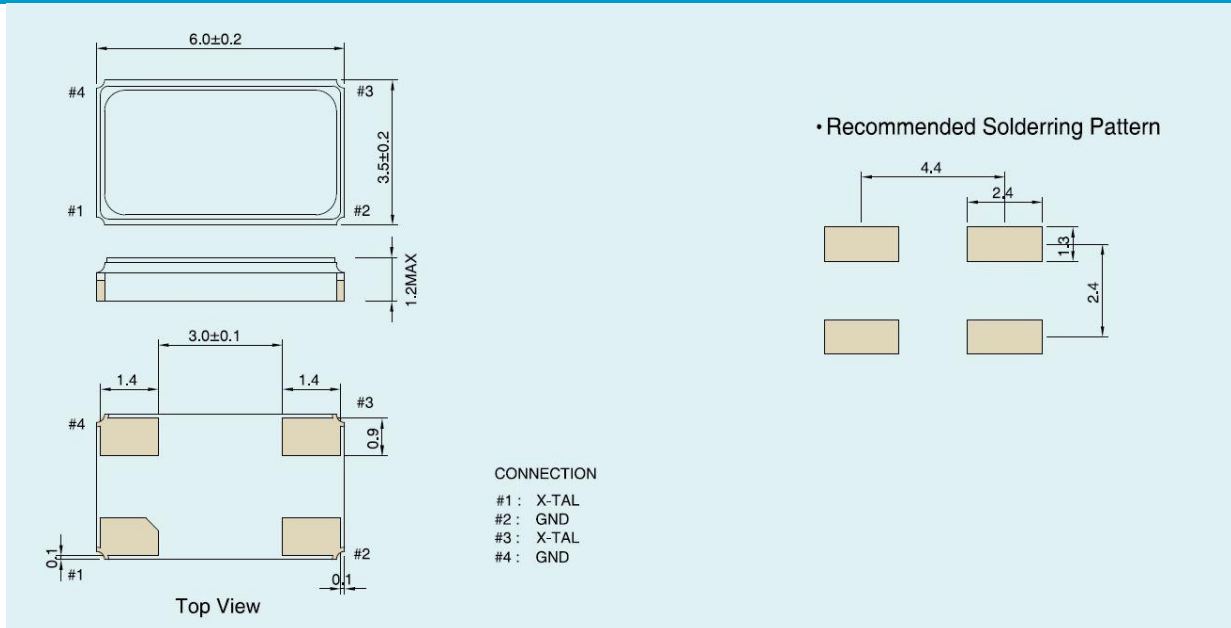
| Series      | Tolerance         | Temperature Range/Stability        | Load            | Freq          |
|-------------|-------------------|------------------------------------|-----------------|---------------|
| <b>BX63</b> | <b>±10ppm = 1</b> | <b>-20 °C to +70°C/ ±15ppm = A</b> | <b>06 = 6pF</b> | <b>30M000</b> |
|             | ±15ppm = 2        | -20 °C to +70°C/ ±20ppm = B        | 09 = 9pF        |               |
|             | ±20ppm = 3        | -20 °C to +70°C/ ±25ppm = C        | 10 = 10pF       |               |
|             | ±25ppm = 4        | -20 °C to +70°C/ ±30ppm = D        | 12 = 12pF       |               |
|             |                   | -20 °C to +70°C/ ±50ppm = E        | XX = Choice pF  |               |
|             |                   | -40 °C to +85°C/ ±15ppm = F        |                 |               |
|             |                   | -40 °C to +85°C/ ±20ppm = G        |                 |               |
|             |                   | -40 °C to +85°C/ ±25ppm = H        |                 |               |
|             |                   | -40 °C to +85°C/ ±30ppm = J        |                 |               |
|             |                   | -40 °C to +85°C/ ±50ppm = K        |                 |               |

For other Tolerance, Stability, and Temperature options please consult factory

**Example P/N: BX63 – 1 – B – 10 – 30M000**

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### MECHANICAL DRAWING



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