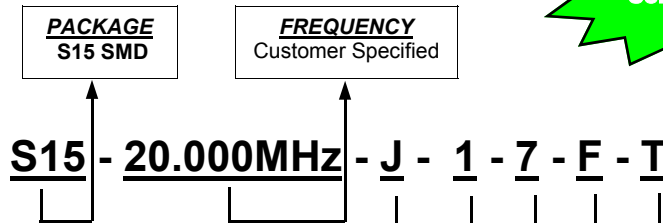


Features of the S15 series Crystal:

- RoHS compliant (Pb free)
- Industry standard Ultra Miniature package (5.0 x 3.2 x 0.8 mm)
- Performance optimized wireless applications
- Seam welded

Part Number Guide



<p><u>TOLERANCE/STABILITY vs. TEMP</u></p> <p>J ... Production Specified (see table below)</p>	<p><u>OPERATING TEMPERATURE</u></p> <p>1.... 0°C to +70°C 2.... -10°C to +60°C 5.... Customer Specified</p>	<p><u>LOAD CAPACITANCE</u></p> <p>S... Series 5.... 18 pF 1 ... 50 pF 6.... 15 pF 2 ... 32 pF 7.... 10 pF 3 ... 30 pF X ... Customer Specified 4 ... 20 pF</p>	<p><u>MODE OF OPERATION</u></p> <p>F Fundamental</p>	<p><u>OPTIONS</u></p> <p>T.... Tape & Reel R...RoHS Compliant</p>
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Electrical Specifications

Frequency Range	12.000 MHz ~ 48.000 MHz
Mode	Fundamental, AT cut
Frequency Tolerance	±10ppm Min ~ ±50ppm Max (±30ppm typical) @ 25°C
Temperature Tolerance	±10ppm Min ~ ±50ppm Max (-10°C to +70°C Ref. to 25°C)
Storage Temperature	-40°C ~ +85°C
ESR	12.0MHz ~ 19.999MHz > 100Ω Max 20.0MHz ~ 29.999MHz > 70Ω Max 30.0MHz ~ 48.000MHz > 50Ω Max
Shunt Capacitance	7pF Max.
Load Capacitance	8pF Min to Series Max
Drive Level	10μW ~ 300μW , 100μW Typical
Aging	±2ppm Max. (25°C ±3°C)/ (1 st year)
Insulator Resistance	500 MΩ Min

Mechanical Specifications

