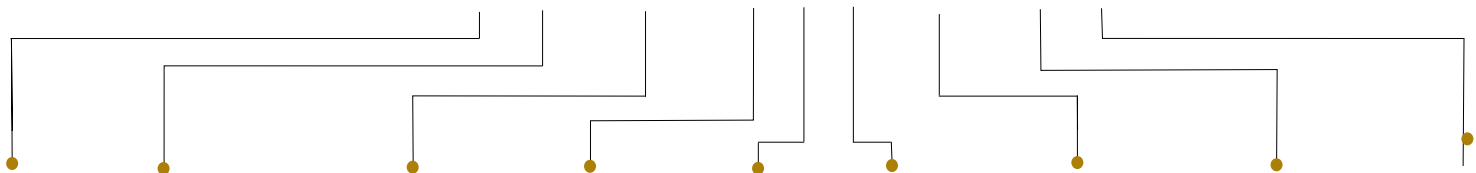


# Lumped Component Filter Specifications

Wi2Wi LC-Series Filters are Lumped Element LC Filters. These can be built in standard and custom packaging, including surface mount, thru-hole mounting, and connectorized packaging. The LC-Series Filters can be manufactured in Bandpass, Bandstop (Notch), Lowpass or Highpass configurations. Wi2Wi will provide rapid prototyping of custom frequencies and bandwidths for your prototyping needs, mass production capability, and competitive pricing.

## LCA1575.15B4A350.0AA1

ex) LC — A — 1575D15 — B — 4 — A — 350D0 — AA — 1



| LC = LC SERIES | PACKAGE DESIGNATION  | CENTER FREQUENCY (MHz)             | FILTER TYPE   | # OF SECTIONS | BANDWIDTH DESIGNATION *                        | BANDWIDTH (MHz)                    | CONNECTOR DESIGNATION (INPUT/OUTPUT) | IMPEDANCE DESIGNATION             |
|----------------|--|------------------------------------|---|---------------|--|------------------------------------|--------------------------------------|-----------------------------------|
|                | A = 0.38" x 0.38"<br>B = 0.50" x 0.50"<br>C = 1.00" x 1.00"<br>D = 1.25" x 1.25"<br>E = 1.50" x 1.50"<br>F = 2.00" x 2.00"<br>S = SMD<br>T = PTH<br>X = Special/Custom | (With D designating decimal point) | B = Bandpass<br>H = Highpass<br>L = Lowpass<br>N = Bandreject |               | A = 3dB<br>B = 1dB<br>C = 0.5dB<br>D = Special | (With D designating decimal point) | (See Chart Below)                    | 1 = 50Ω<br>2 = 75Ω<br>3 = Special |

\* - For Lowpass or Highpass filters, the designation references the Cutoff Frequency point. There will be no Bandwidth used. For example: LCA800L4AAA1.

### Filter Applications and Performance Ranges

#### Primary Applications

Ground-Based RADAR , Airborne RADAR Systems , Airborne Vehicle Systems , Satellite Systems , Radio Receivers , Down-Hole Systems

#### Electrical Specifications

|  |                    |
|--|--------------------|
| Frequency Range                                      | 0.5MHz to 3,500MHz |
| Percentage Bandwidth (assuming bandpass application) | 1 to 100%          |
| Return Loss  | 14dB Typical       |
| Input Power  | 1 Watt, Standard   |

#### Types, Responses and Topologies

|                          |   |
|--------------------------|---|
| Filter Types Available   | Bandpass , Bandreject , Highpass , Lowpass      |
| Typical Filter Responses | Chebyshev , Butterworth , Bessel , Linear Phase |
| Topologies               | Single , Multiplexer , Custom Configurations    |

#### Standard Environmental Specifications

|                             |                          |
|-----------------------------|--------------------------|
| Operating Temperature Range | -25°C to +70°C, Typical  |
| Storage Temperature Range   | -55°C to +85°C, Typical  |
| Humidity                    | 0 to 95%, Non-Condensing |
| Vibration                   | Up to 50 G's             |
| Shock                       | Up to 50 G's             |
| Altitude                    | Unlimited                |

### Connector Chart

| Connectors    | Code |
|---------------|------|
| SMA Jack      | A    |
| SMA Plug      | B    |
| N Jack        | C    |
| N Plug        | D    |
| BNC Jack      | E    |
| BNC Plug      | F    |
| TNC Jack      | G    |
| TNC Plug      | H    |
| SMB Jack      | I    |
| SMB Plug      | J    |
| SMC Jack      | K    |
| SMC Plug      | L    |
| 7/16 DIN Jack | M    |
| 7/16 DIN Plug | N    |
| SMT           | P    |
| Thru Hole     | Q    |

An "R" designation will be used to indicate a right angle connector configuration

An "X" designation will be used to indicate a non-standard or custom configuration