Evolution to 5G - story to date.

Benefits/Advantages
- Equalizers, etc. not featured here. Please see our requests and offer many other solutions such as Cavity Filters (1-5% bandwidth), Diplexers, Gain
- In addition, we continue to support custom
- Devices such as Directional couplers shown here. Over 10 years of designing custom solutions for very demanding defense and telecom applications
- Combining the dielectric materials with our thin
- and offer higher selectivity in filtering applications. Temperature stable dielectric materials allows the
- manufacturing. Utilizing our high permittivity and
- 40 years; ceramic expertise and thin film
- competencies that have been honed for over
- High Q Capacitors and proprietary thin film components for niche high frequency applications, while
- with top management, strives to achieve excellence in designing, manufacturing and delivering
- meet our customers' requirements, but to exceed their expectations. The entire organization, beginning
- DLI's reputation for quality and environmental responsibility is based on a commitment not only to
- Quality and Environmental Policy
- the demands of our industry.
- complies with the requirements of the individual customer and will maintain product offerings that meet
- DLI is a leading supplier to the electronic components market and is fully committed to offering products
- RoHS Compliance Statement
- Synthesizer and filter banks
- Switch Filter Banks
- Microwave Radar
- Test Equipment
- Microwave Radar
- Radio and Wideband Applications where lower noise
- and offering a solution that meets high and reliability are crucial.
- medical and industrial applications where function
- sells special electronic components. Our products
- Knowles Capacitors designs, manufactures and
- Evolution to 5G - 5G Base Stations

DLI's Evolution to 5G - story to date.

Typical Applications
- Microwave Radar
- Test Equipment
- Cavity Filter Banks
- Switch and Radio Communications
- Synthesizer and Filter Banks
- 5G Base Stations

Typical Applications
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Evolution to Microwave Products

DLI's Microwave Products integrate ferro and ceramic competencies that have been honed for over
40 years; ceramic expertise and thin film manufacturing. Utilizing our high permittivity and
temperature stable ceramic materials allows the product to be designed smaller than competitive
and offer higher selectivity in filtering applications. Combining the dielectric materials with our thin
film fabrication and anti-collimation allows our engineers to push the limits of the materials,
and offer highly repeatable results for difficult
- Temperature Stable (-55 to +125 °C)
- Power Handling (up to 40 Watts)
- Lower Cost of Manufacturing Assembly
- Surface Mount Assembly up to 3MM
- Lower Cost of Manufacturing Assembly
- Power Handling (up to 40 Watts)
- High Reliability – Prototype Through
- Testing

Environmental Management System through the establishment and monitoring of objectives and targets.
- and pollution prevention initiatives. DLI strives to continually improve the effectiveness of our Quality and
- maintaining safe and healthy working conditions. Furthermore, DLI commits to achieve these goals in an
- environmentally responsible manner through our commitment to comply with environmental regulations
- and make a positive impact on the environment.
- High Q Capacitors and proprietary thin film components for niche high frequency applications, while
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- & AS9100B
- ISO 9001:2000
- ISO 14001
- TM
- © Copyright Knowles Capacitors, 2017 - design: creations@panpublicity.co.uk

5G Base Stations
- Microwave Radar
- Test Equipment
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### SM Bandpass Filters

<table>
<thead>
<tr>
<th>Number</th>
<th>Part</th>
<th>Frequency</th>
<th>Center</th>
<th>Passband</th>
<th>Loss (@Fc)</th>
<th>Bandwidth</th>
<th>VSWR</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>L117XH4S</td>
<td>11.7 GHz</td>
<td>DC - 11 GHz</td>
<td>±0.25</td>
<td>±3.0</td>
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<td>15</td>
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<td>L157XG3S</td>
<td>15.7 GHz</td>
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<td>SMT 2-Way</td>
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<tr>
<td>L185XF4S</td>
<td>18.5 GHz</td>
<td>DC - 18 GHz</td>
<td>±0.25</td>
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<td>0.7</td>
<td>20</td>
<td>25</td>
<td>5 Chip &amp; Wire</td>
<td>2-Way</td>
<td>0.185 x 0.160 x 0.020</td>
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<tr>
<td>L095XG9S</td>
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<td>20</td>
<td>18</td>
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<td>0.150 x 0.100 x 0.015</td>
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<td>PDW06011</td>
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<td>25</td>
<td>5 Chip &amp; Wire</td>
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<td>PDW06041</td>
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<td>SMT 2-Way</td>
<td>0.400 x 0.250 x 0.020</td>
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<tr>
<td>PDW06933</td>
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<td>±0.25</td>
<td>±5.0</td>
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<td>18</td>
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<td>SMT 2-Way</td>
<td>0.600 x 0.180 x 0.020</td>
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<td>PDW07069</td>
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<td>0.3</td>
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<td>0.25</td>
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<td>TBD</td>
<td>SMT 2-Way</td>
<td>0.150 x 0.100 x 0.015</td>
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### Lowpass Filters

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<thead>
<tr>
<th>Number</th>
<th>Part</th>
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<th>Passband</th>
<th>Loss (@Fc)</th>
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<th>Max</th>
<th>Notes</th>
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<td>1</td>
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<td>10</td>
<td>±1.5</td>
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<td>18</td>
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<td>0.065 x 0.050 x 0.010</td>
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<tbody>
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<td>±3.0</td>
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<th>Max</th>
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<tbody>
<tr>
<td>41200W062</td>
<td>6 GHz</td>
<td>2</td>
<td>0.5</td>
<td>15</td>
<td>30</td>
<td>30</td>
<td>0.060 x 0.088 x 0.010</td>
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<tr>
<td>41200W063</td>
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