

### Features

- Extended pass band
- Low loss
- High rejection

### Description

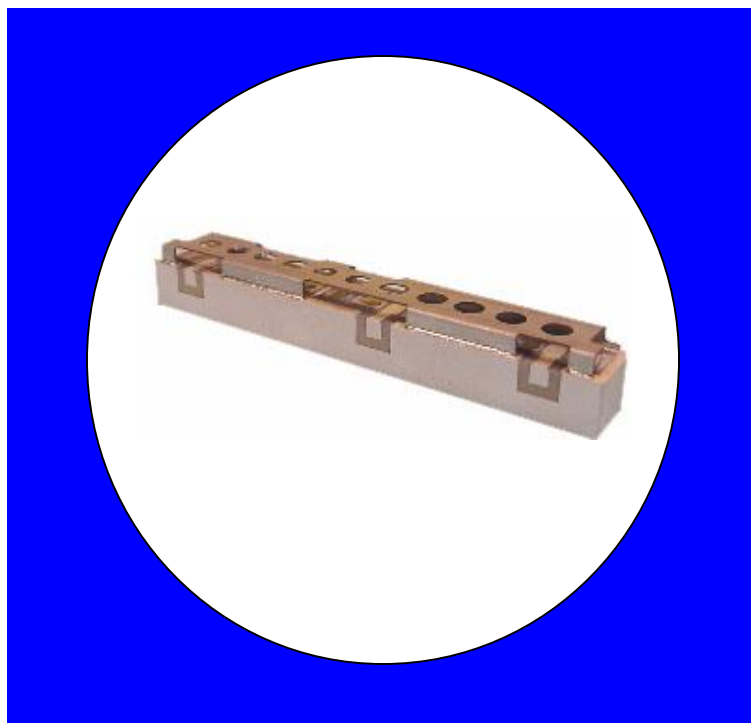
Surface mount, silver (Ag) coated ceramic duplexer. Developed for use in GSM Infrastructure applications.

Weight: Approximately 8.0 grams typical

Material: Filter is composed of a ceramic block plated with Ag and a shield made of nickel silver plated steel.

Filter complies with RoHS standards.

### Electrical Specifications



| Parameter                       | Frequency MHz | Typical @ 25°C | Specification @ 25°C | Spec over -40°C to +90°C |
|---------------------------------|---------------|----------------|----------------------|--------------------------|
| <b>Low Band Response (S21)</b>  |               |                |                      |                          |
| Passband Iloss                  | 1850 - 1910   | -2.40          | -2.70                | -3.00                    |
| Passband Ripple                 | 1850 - 1910   | 1.70           | 1.85                 | 2.00                     |
| Passband Return Loss @ Port 2   | 1850 - 1910   | -14.00         | -12.00               | -12.00                   |
| Passband Return Loss @ Ant      | 1850 - 1910   | -14.00         | -12.00               | -12.00                   |
| Attenuation                     | 1930 - 1990   | -42.50         | -40.00               | -40.00                   |
| <b>High Band Response (S13)</b> |               |                |                      |                          |
| Passband Iloss                  | 1930 - 1990   | -2.50          | -2.70                | -3.00                    |
| Passband Ripple                 | 1930 - 1990   | 1.70           | 1.85                 | 2.00                     |
| Passband Return Loss @ Port 3   | 1930 - 1990   | -12.00         | -10.00               | -10.00                   |
| Passband Return Loss @ Ant      | 1930 - 1990   | -12.00         | -10.00               | -10.00                   |
| Attenuation                     | 1850 - 1910   | -42.00         | -40.00               | -40.00                   |
| <b>Isolation (S23)</b>          |               |                |                      |                          |
| Rejection @ Low Band            | 1850 - 1910   | -43.00         | -40.00               | -40.00                   |
| Rejection @ High Band           | 1930 - 1990   | -43.00         | -40.00               | -40.00                   |
| Power into any port             |               | 6 Watt max     |                      |                          |

Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

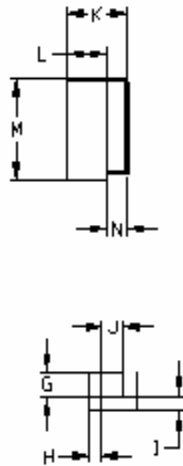
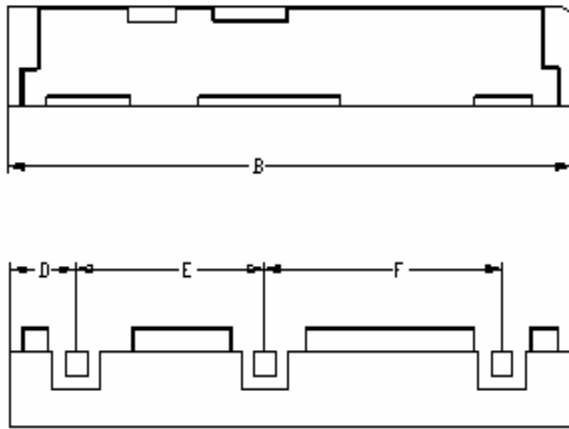
| Specification Allowance |        |
|-------------------------|--------|
| Insertion Loss          | 0.1 dB |
| Return Loss             | 1.0 dB |
| Stopbands               | 1.0 dB |

\*This product is covered by one or more of the following U.S. and foreign patents including: US 4,692,726;US 4,742,562; US 4,800,348;US 4,829,274;US 5,146,193;EP 0573597;DE 0573597;FR 0573597;JP 508149/92;KR 142171;US 5,162,760;US 5,218,329;US 5,250,916;US 5,327,109;US 5,488,335;CA 2114029;FR 9306297;GB 2273393;JP 3205337;KR 115113;CN 93106228.4;US 5,512,866;EP 0706719;DE 0706719;FR 0706719;GB 0706719;CN 95190359.4;US 5,602,518;US 5,721,520;US 5,745,018;EP 0910875;DE 0910875;DK 0910875;FR 0910875;GB 0910875;IE 0910875;JP 505182/98;KR 10-323013;US 5,994,978;US 6,462,629;CN 00810420.4;US 6,559,735;US 6,650,202;US 6,834,429.Other US and foreign patents pending.

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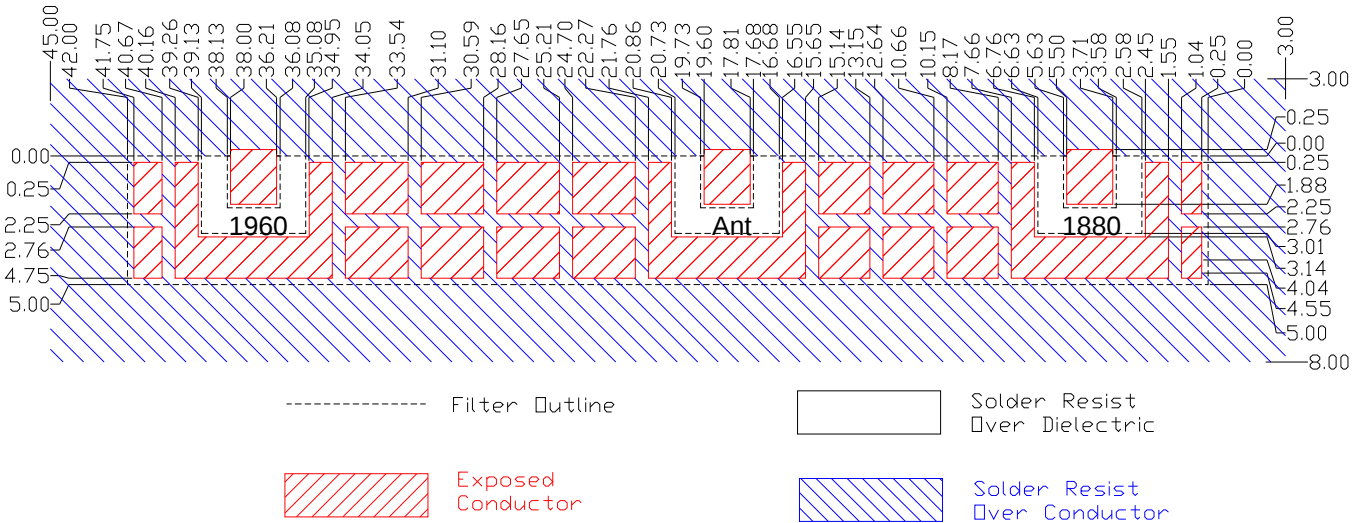
### Mechanical Drawing

Revision B – Origin Date: October 19, 2007 – Revision Date: July 28, 2011

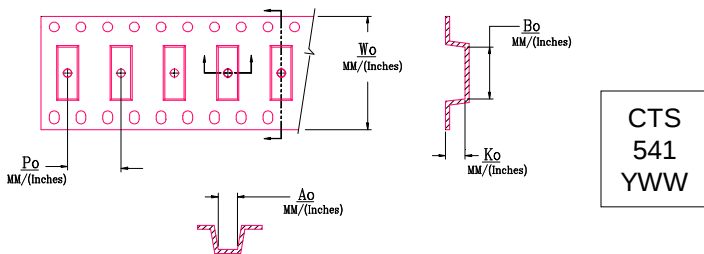


| Dim | Nominal (mm) | Tolerance (mm)<br>+/- or max |
|-----|--------------|------------------------------|
| A   |              |                              |
| B   | 42.0         | max                          |
| C   |              |                              |
| D   | 4.6          | 0.25                         |
| E   | 14.1         | 0.13                         |
| F   | 18.4         | 0.13                         |
| G   | 2.01         | 0.13                         |
| H   | 1.00         | 0.13                         |
| I   | 1.00         | 0.13                         |
| J   | 2.05         | 0.13                         |
| K   | 6.65         | max                          |
| L   | 5.0          | Max                          |
| M   | 8.0          | max                          |
| N   | 1.65         | 0.13                         |

### PCB Layout

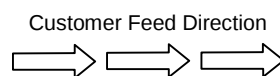


### Packaging and Marking

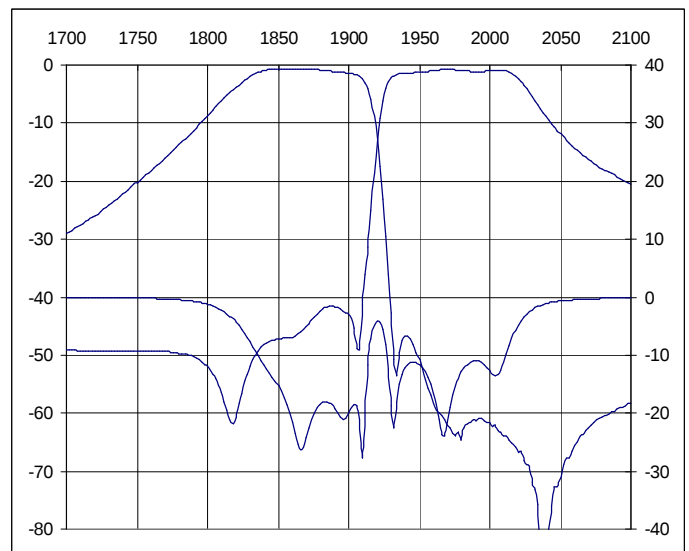


| W0          | A0          | B0          | K0         | P0          |
|-------------|-------------|-------------|------------|-------------|
| Inches/mm   | Inches/mm   | Inches/mm   | Inches/mm  | Inches/mm   |
| 2.205"/56.0 | 0.274"/6.95 | 1.665"/42.3 | 0.315"/8.0 | 0.472"/12.0 |

| DIMENSION     | UNITS | SPECIFICATION |
|---------------|-------|---------------|
| REEL DIAMETER | mm    | 330           |
| REEL WEIGHT   | kg    | 1             |
| REEL QUANTITY | ea.   | 250           |



### Electrical response



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