

## Features

- Low Loss
- Low Ripple

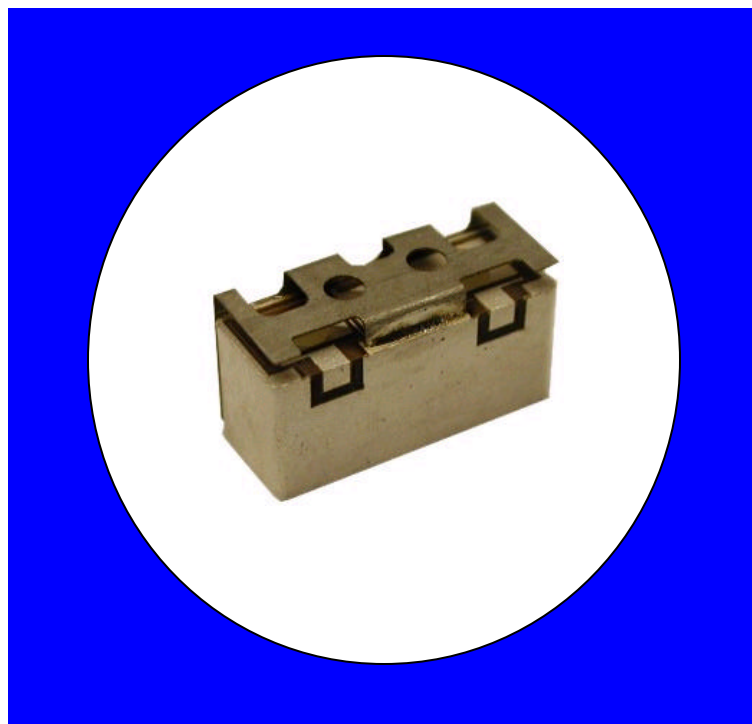
## Description

Surface mount, silver (Ag) coated ceramic filter for use in broadband applications.

Weight: 1.1 grams typical

Material: Filter is composed of a ceramic block plated with Ag

Filter complies with RoHS standards.



## Electrical Specifications

| Parameter                     | Frequency MHz | Typical @ 25°C | Specification @ 25°C | Spec over -40°C to +85°C |
|-------------------------------|---------------|----------------|----------------------|--------------------------|
| <b>TX to Antenna Response</b> |               |                |                      |                          |
| Passband Iloss                | 3550-3600     | -0.95          | -1.30                | -1.50                    |
| Passband Ripple               | 3550-3600     | 0.20           | 0.50                 | 0.50                     |
| Passband Return Loss @ TX     | 3550-3600     | -17.00         | -14.00               | -14.00                   |
| Passband Return Loss @ Ant    | 3550-3600     | -17.00         | -14.00               | -14.00                   |
| Attenuation                   | 0.1 - 3350    | -45.00         | -40.00               | -40.00                   |
|                               | 3475          | -15.00         | -10.00               | -10.00                   |
|                               | 3675          | -14.00         | -10.00               | -10.00                   |
|                               | 3850 - 5800   | -43.00         | -40.00               | -40.00                   |
| Power into any port           |               | 1 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:

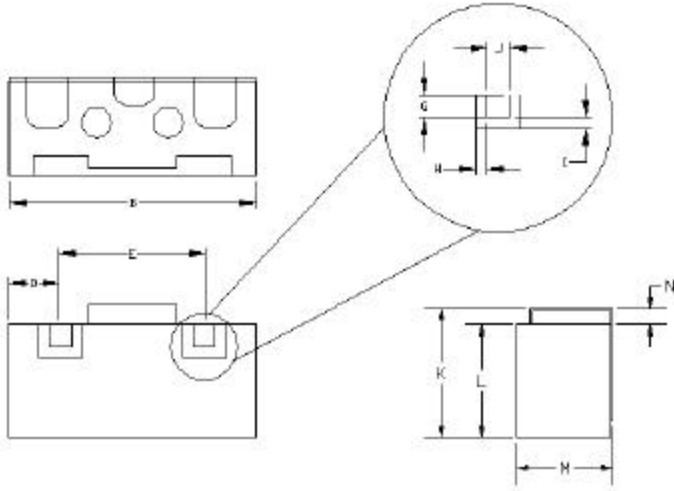
| Specification Allowance |        |
|-------------------------|--------|
| Insertion Loss          | 0.1 dB |
| Return Loss             | 1.0 dB |
| Stopbands               | 1.0 dB |

\*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;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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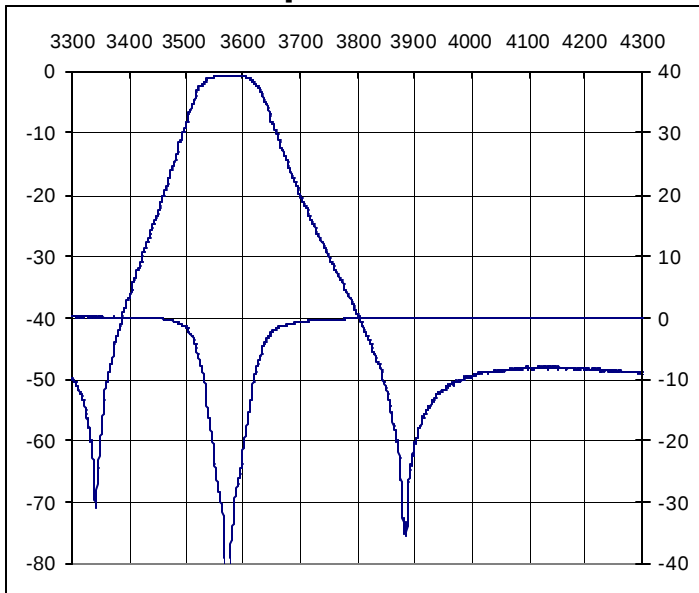
### Mechanical Drawing

Rev 2 – Origin Date: February 3, 2006 – Revision Date: May 22, 2006

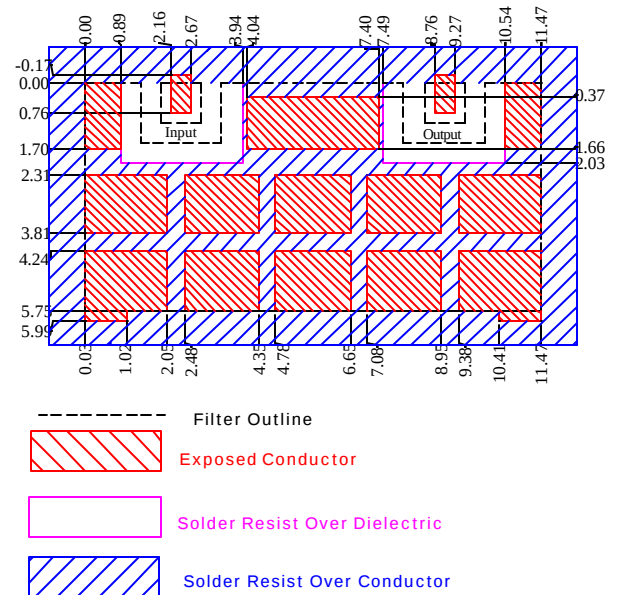


| Dim | Nominal (mm) | Tolerance (mm) +/- or max |
|-----|--------------|---------------------------|
| A   |              |                           |
| B   | 11.75        | Max                       |
| C   |              |                           |
| D   | 2.41         | 0.13                      |
| E   | 6.6          | 0.13                      |
| F   |              |                           |
| G   | 1.02         | 0.13                      |
| H   | 0.51         | 0.13                      |
| I   | 0.51         | 0.13                      |
| J   | 1.02         | 0.13                      |
| K   | 6.9          | Max                       |
| L   | 5.9          | Max                       |
| N   | 1.03         | 0.13                      |
| M   | 4.6          | Max                       |

### Electrical response

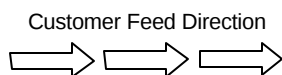


### PCB Layout



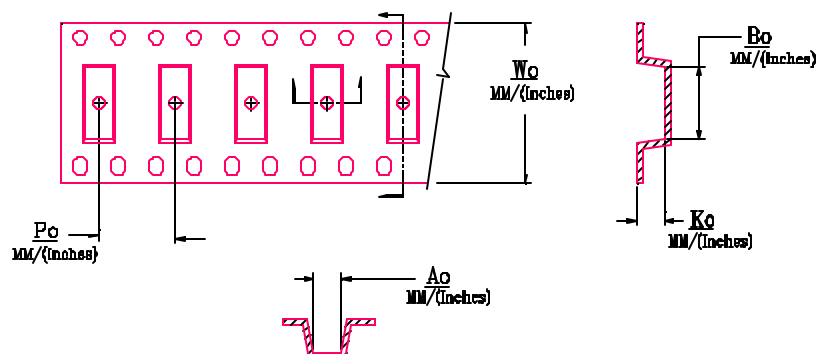
### Packaging and Marking

| DIMENSION     | UNITS | SPECIFICATION |
|---------------|-------|---------------|
| REEL DIAMETER | mm    | 330           |
| REEL WEIGHT   | kg    | 1.7           |
| REEL QUANTITY | ea.   | 1000          |



Product Marking

CTS  
187  
YWW



| Wo        | Ao          | Bo           | Ko          | Po           |
|-----------|-------------|--------------|-------------|--------------|
| Inches/mm | Inches/mm   | Inches/mm    | Inches/mm   | Inches/mm    |
| 1.732"/44 | 0.274"/6.95 | 1.031"/26.20 | 0.207"/5.25 | 0.472"/12.00 |