

### Features

- High Rejection
- Low Loss
- Small Size

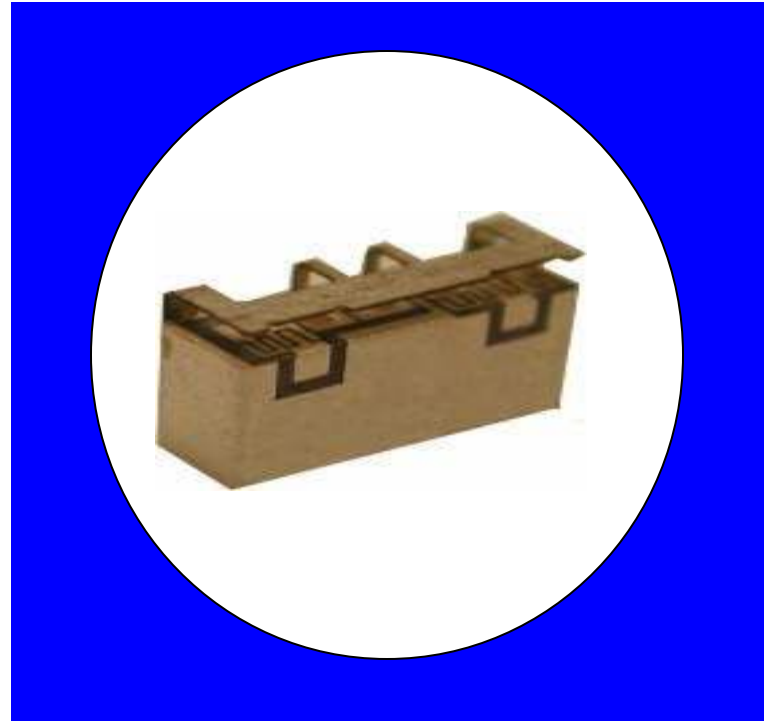
### Description

Surface mount, silver (Ag) coated barium ceramic filter.

Weight: 0.52 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 |
|-------------------------------|---------------|----------------|----------------------|--------------------------|
| Passband Iloss                | 2470 - 2715   | -1.2           | -1.5                 | -2.0                     |
| Passband Ripple               | 2470 - 2715   | 0.5            | 0.8                  | 0.9                      |
| Passband Return Loss @ Port 1 | 2470 - 2715   | -14.0          | -12.0                | -12.0                    |
| Passband Return Loss @ Port 2 | 2470 - 2715   | -14.0          | -12.0                | -12.0                    |
| Attenuation                   | 0.1 - 468     | -80.0          | -65.0                | -65.0                    |
|                               | 468 - 768     | -75.0          | -60.0                | -60.0                    |
|                               | 768 - 1754    | -54.0          | -50.0                | -50.0                    |
|                               | 1754 - 2222   | -50.0          | -40.0                | -40.0                    |
|                               | 2222 - 2360   | -34.0          | -20.0                | -20.0                    |
|                               | 2963 - 3158   | -48.0          | -30.0                | -30.0                    |
| 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:

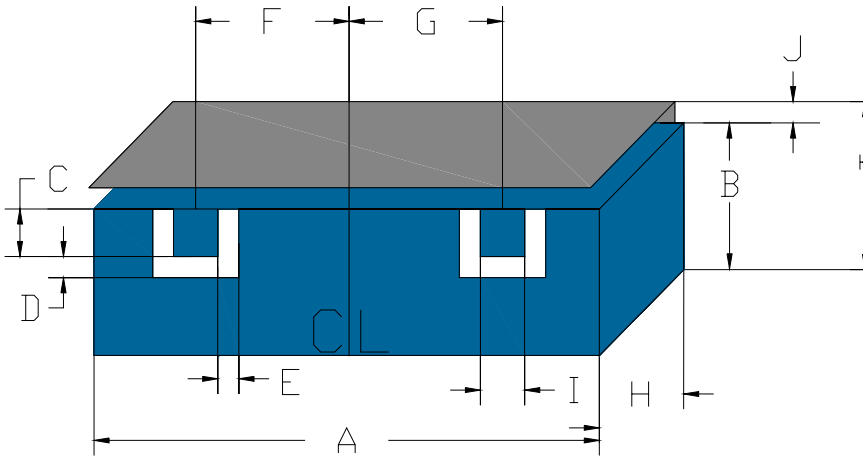
| Specification Allowance |        |
|-------------------------|--------|
| Insertion Loss          | 0.1 dB |
| Return Loss             | 1.0 dB |
| Stopbands               | 1.0 dB |

\*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;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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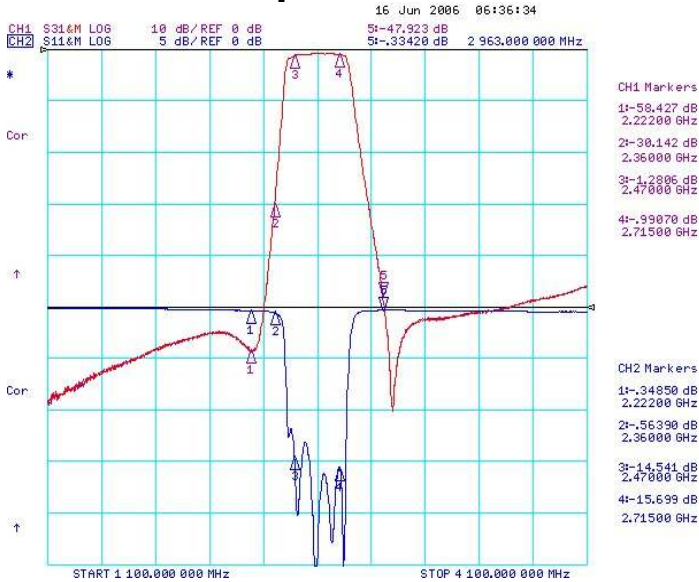
### Mechanical Drawing

Rev 1 – Origin Date: June 12, 2006 – Revision Date: March 23, 2007

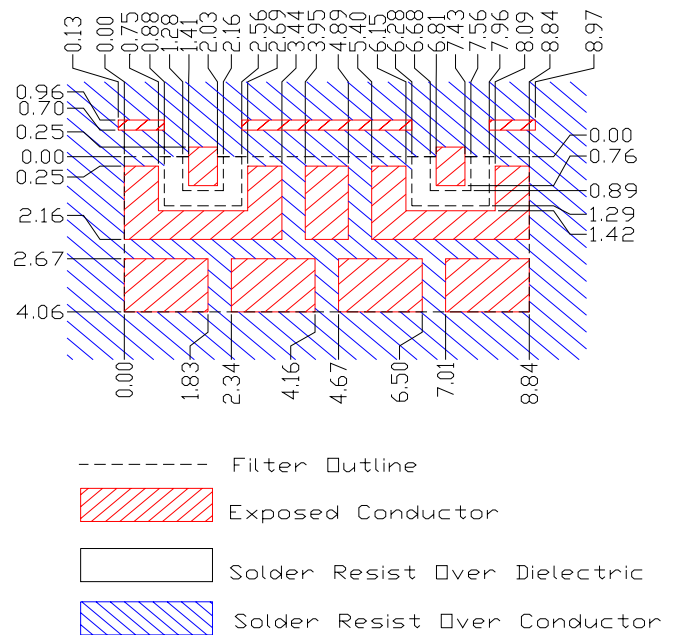


| Dim | Nominal (mm) | Tolerance (mm)<br>+/- or max |
|-----|--------------|------------------------------|
| A   | 8.84         | Max                          |
| B   | 4.06         | Max                          |
| C   | 0.89         | 0.13                         |
| D   | 0.40         | 0.13                         |
| E   | 0.40         | 0.13                         |
| F   | 2.70         | 0.13                         |
| G   | 2.70         | 0.13                         |
| H   | 2.85         | Max                          |
| J   | 0.96         | 0.13                         |
| I   | 0.89         | 0.13                         |

### Electrical response

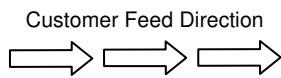


### PCB Layout



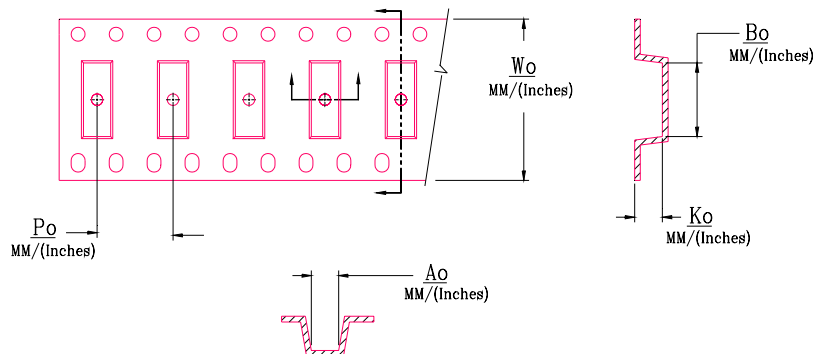
### Packaging and Marking

| DIMENSION     | UNITS | SPECIFICATION |
|---------------|-------|---------------|
| REEL DIAMETER | mm    | 330           |
| REELWEIGHT    | kg    | 1.5           |
| REEL QUANTITY | ea.   | 1000          |



#### Product Marking

CTS  
284  
YWW



| Wo        | Ao          | Bo          | Ko          | Po          |
|-----------|-------------|-------------|-------------|-------------|
| Inches/mm | Inches/mm   | Inches/mm   | Inches/mm   | Inches/mm   |
| 0.630"/16 | 0.215"/5.46 | 0.360"/9.14 | 0.120"/3.04 | 0.472"/12.0 |