

Features

- Low Loss
- Low Ripple
- Small Size

Description

Surface mount, Silver (Ag) coated barium ceramic filter. Developed for use in W-CDMA infrastructure applications.

Weight: 0.6 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 | Spec. over -40°C to +85°C |
|------------------------------|-----------------|----------------|---------------------------|
| Passband Insertion Loss | 2110 - 2170 | 1.3 dB | 3.0 dB max |
| Passband Return Loss @ input | 2110 - 2170 | 14.0 dB | 10.0 dB min |
| Passband Ripple | 2110 - 2170 | .5 dB | 1.0 dB max |
| Attenuation: | 1800 | 36.0 dB | 30.0 dB min |
| | 1980 | 56.0 dB | 22.0 dB min |
| | 2300 | 35.0 dB | 25.0 dB min |
| Power into any port | | 1 Watt max | |

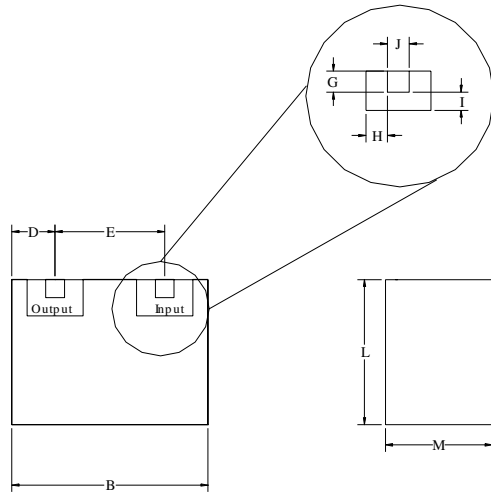
Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

| 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.

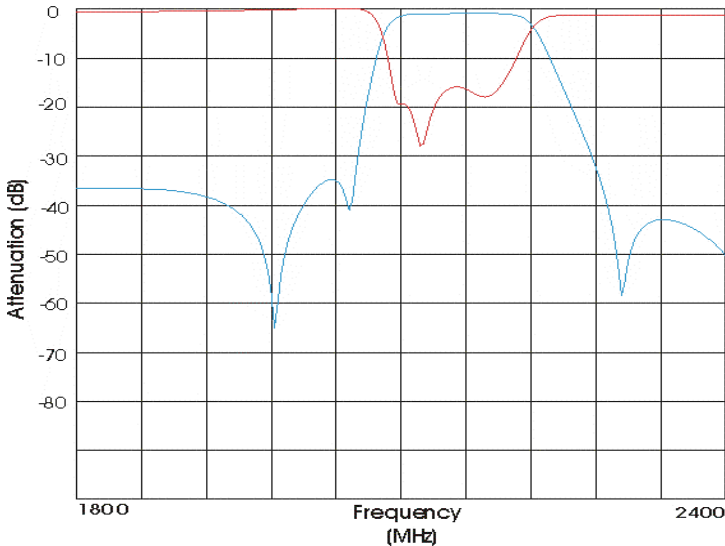
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Mechanical Drawing

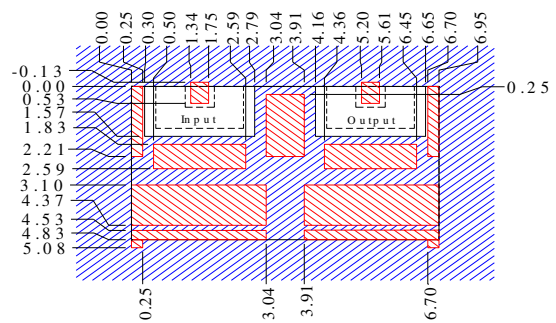


| Dim | Nominal (mm) | Tolerance (mm) +/- or max |
|-----|--------------|------------------------------|
| A | | |
| B | 7.05 | max |
| C | | |
| D | 1.55 | 0.25 |
| E | 3.86 | 0.13 |
| F | | |
| G | 0.66 | 0.13 |
| H | 0.66 | 0.13 |
| I | 0.66 | 0.13 |
| J | 0.66 | 0.13 |
| K | | |
| L | 5.03 | max |
| M | 3.93 | max |

Electrical response



PCB Layout

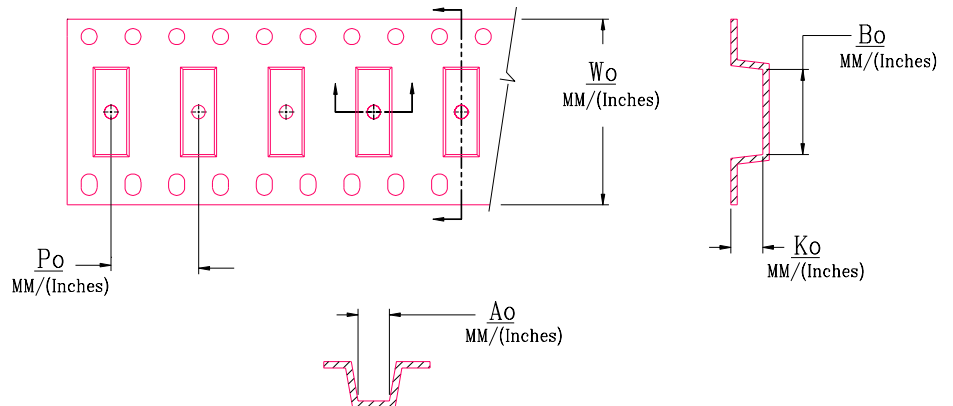


Dimensions are in mm. Tolerance = +/- 0.13

- Filter Outline
- Exposed Conductor
- Solder Resist Over Conductor
- Solder Resist Over Dielectric

Packaging and Marking

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



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| MODEL NO. | Wo | Ao | Bo | Ko | Po |
|-----------|--------------|-------------|--------------|--------------|-------------|
| CER0110 | 16.0/(0.630) | 5.46/(.215) | 7.49/(0.295) | 4.45/(0.175) | 8.0/(0.315) |