

### Features

- Extended Pass Band
- Low Loss
- High Rejection

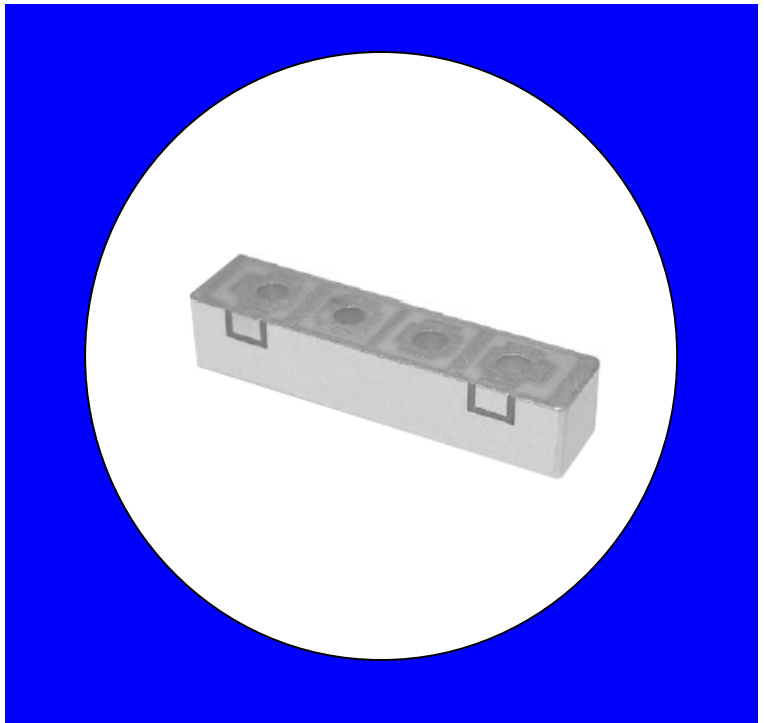
### Description

Surface mount, silver (Ag) coated ceramic filter. Developed for use in InMarSat infrastructure and subscriber applications.

Weight: 6.97 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. @ 25°C |
|----------------------|-----------------|----------------|--------------|
| Insertion Loss (PB1) | 1525-1559       | 0.8 dB         | 1.0 dB max   |
| Insertion Loss (PB2) | 1559-1577       | 1.3 dB         | 1.7 dB max   |
| Forward Return Loss  | 1525-1559       | 13.0 dB        | 12.0 dB min  |
| Attenuation          | 1460            | 26.5 dB        | 25.0 dB min  |
| Attenuation          | 1625            | 26.5 dB        | 25.0 dB min  |
| Attenuation          | 1710            | 50.0 dB        | 40.0 dB min  |
| Power Rating         |                 |                | 1W           |
| Impedance            |                 |                | 50 Ω         |

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:

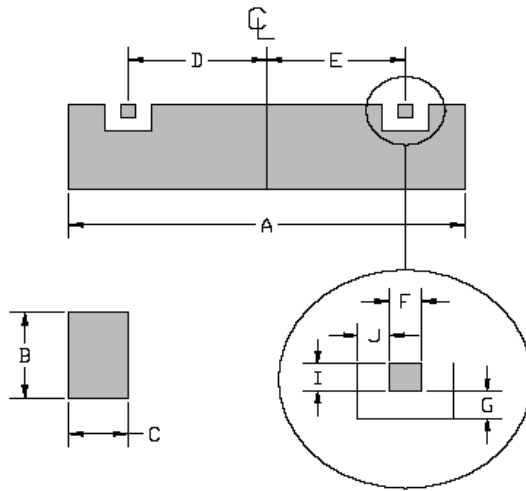
| Specification Allowance |        |
|-------------------------|--------|
| Insertion Loss          | 0.1 dB |
| Return Loss             | 1.0 dB |
| Stopbands               | 1.0 dB |

\*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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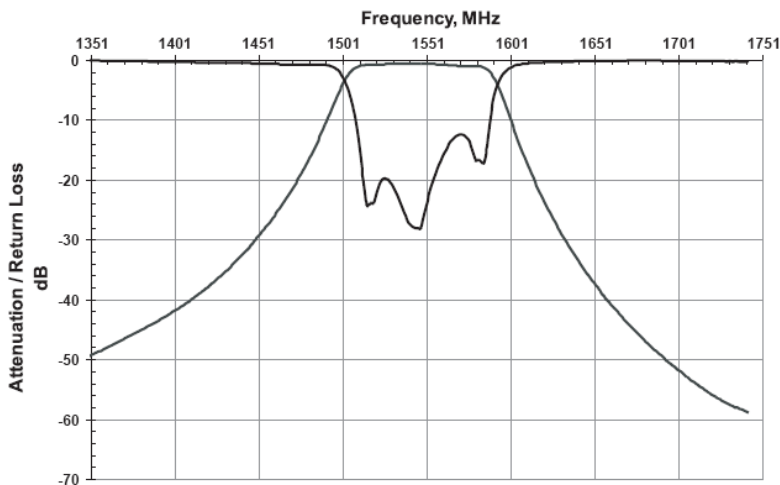
## Mechanical Drawing

Rev 0 – Origin Date: July 11, 2005 – Revision Date: July 11, 2005

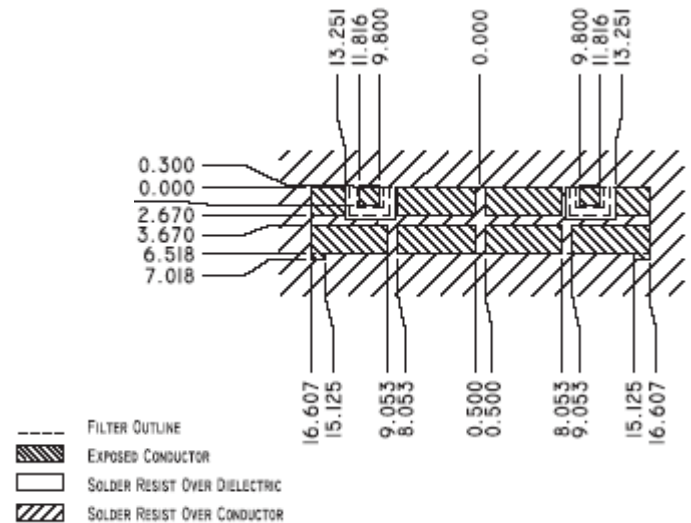


| Dim | Nominal (mm) | Tolerance (mm)<br>+/- or max |
|-----|--------------|------------------------------|
| A   | 33.58        | max                          |
| B   | 6.68         | max                          |
| C   | 7.85         | max                          |
| D   | 10.81        | 0.127                        |
| E   | 10.81        | 0.127                        |
| F   | 2.62         | 0.127                        |
| G   | 0.635        | 0.127                        |
| H   |              |                              |
| I   | 2.032        | 0.127                        |
| J   | 0.635        | 0.127                        |

## Electrical response

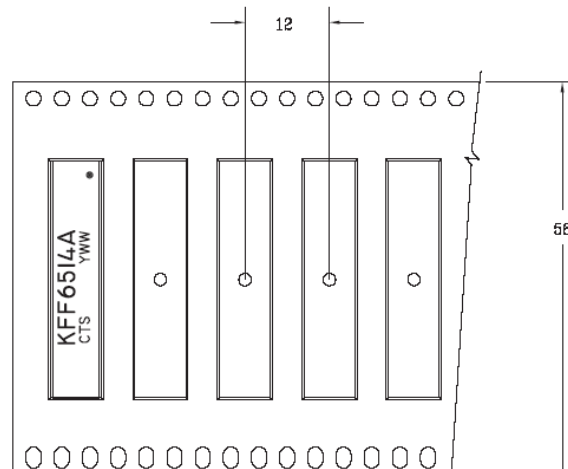
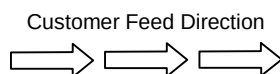


## PCB Layout



## Packaging and Marking

| DIMENSION     | UNITS | SPECIFICATION |
|---------------|-------|---------------|
| REEL DIAMETER | mm    | 330           |
| REEL WEIGHT   | kg    | 2.25          |
| REEL QUANTITY | ea.   | 250           |



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