



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



### Features

- Low Loss
- High Rejection
- Low Ripple

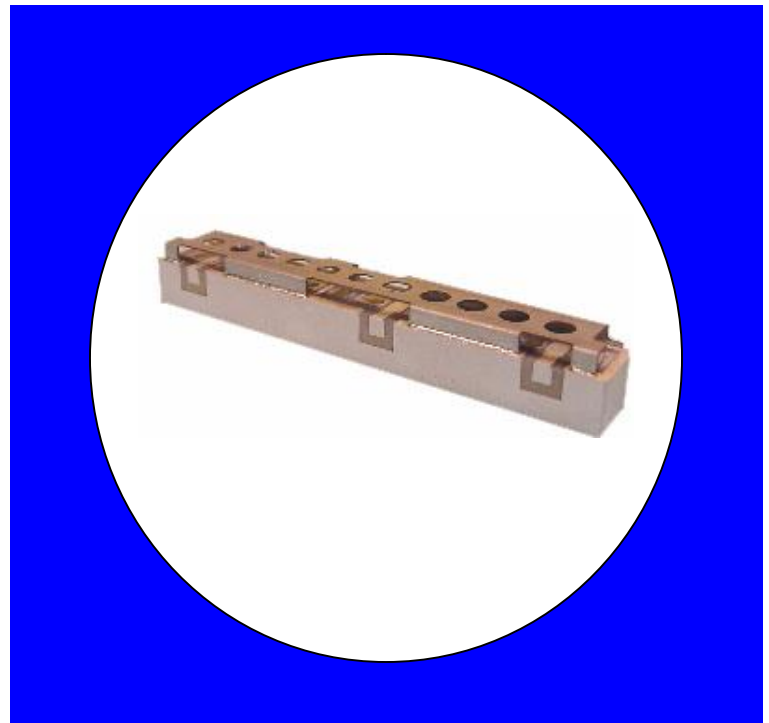
### Description

Surface mount, silver (Ag) coated ceramic duplexer. Developed for use in 2.6 GHz Infrastructure applications.

Weight: Approximately 30.0 grams typical

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

Filter complies with RoHS standards.



### Electrical Specifications

| Parameter                        | Frequency MHz | Typical @ 25°C | Specification @ 25°C | Spec over -40°C to +85°C |
|----------------------------------|---------------|----------------|----------------------|--------------------------|
| <b>Low Band Response</b>         |               |                |                      |                          |
| Passband Iloss                   | 2500 - 2570   | -1.60          | -1.80                | -2.10                    |
| Passband Ripple                  | 2500 - 2570   | 0.70           | 0.90                 | 1.10                     |
| Passband Return Loss @ Ant       | 2500 - 2570   | -14.00         | -12.00               | -12.00                   |
| Passband Return Loss @ Low Band  | 2500 - 2570   | -14.00         | -12.00               | -12.00                   |
| Attenuation                      | 0.1 - 2380    | -38.00         | -35.00               | -35.00                   |
|                                  | 2620 - 2690   | -50.00         | -48.00               | -48.00                   |
| <b>High Band Response</b>        |               |                |                      |                          |
| Passband Iloss                   | 2620 - 2690   | -1.50          | -1.70                | -2.00                    |
| Passband Ripple                  | 2620 - 2690   | 0.70           | 0.80                 | 1.00                     |
| Passband Return Loss @ Ant       | 2620 - 2690   | -14.00         | -12.00               | -12.00                   |
| Passband Return Loss @ High Band | 2620 - 2690   | -14.00         | -12.00               | -12.00                   |
| Attenuation                      | 0.1 - 2500    | -52.00         | -50.00               | -50.00                   |
|                                  | 2500 - 2570   | -50.00         | -48.00               | -48.00                   |
| <b>Isolation</b>                 |               |                |                      |                          |
| Rejection @ Low Band             | 2500 - 2570   | -51.00         | -48.00               | -48.00                   |
| Rejection @ High Band            | 2620 - 2690   | -51.00         | -48.00               | -48.00                   |
| Power into any port              |               | 3 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 |

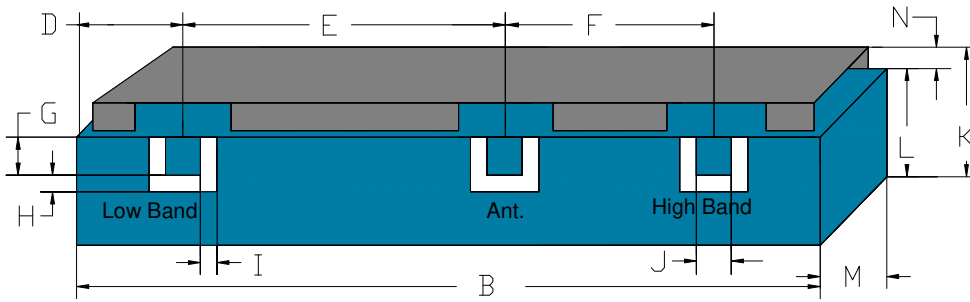
\*This product is covered by one or more of the following U.S. and foreign patents including: US 4,692,726;US 4,742,562; US 4,800,348;US 4,829,274;US 5,146,193;EP 0573597;DE 0573597;FR 0573597;JP 508149/92;KR 142171;US 5,162,760;US 5,218,329;US 5,250,916;US 5,327,109;US 5,488,335;CA 2114029;FR 9306297;GB 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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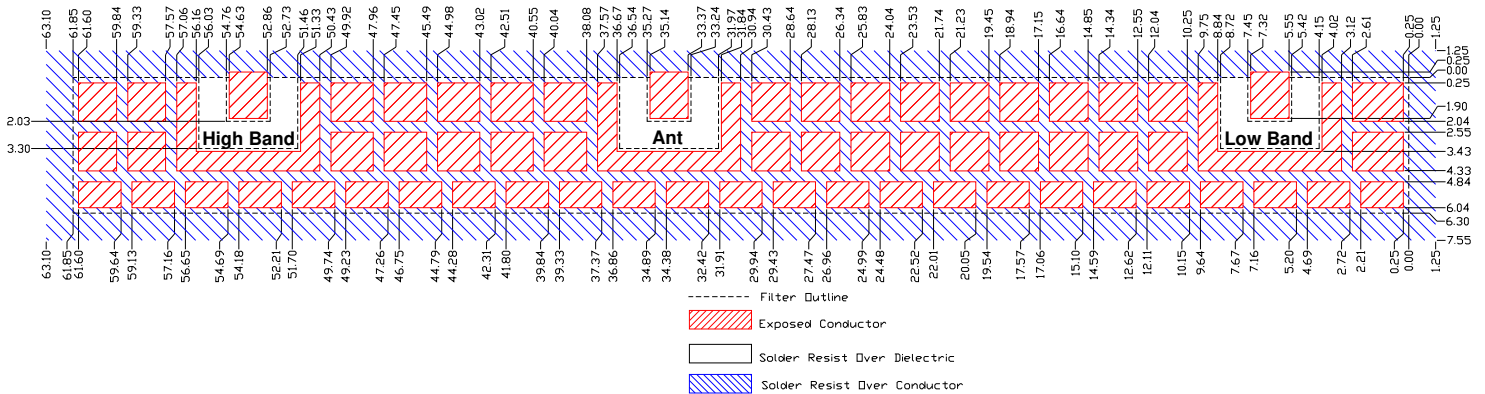
### Mechanical Drawing

Revision A – Origin Date: July 28, 2011 – Revision Date: July 28, 2011



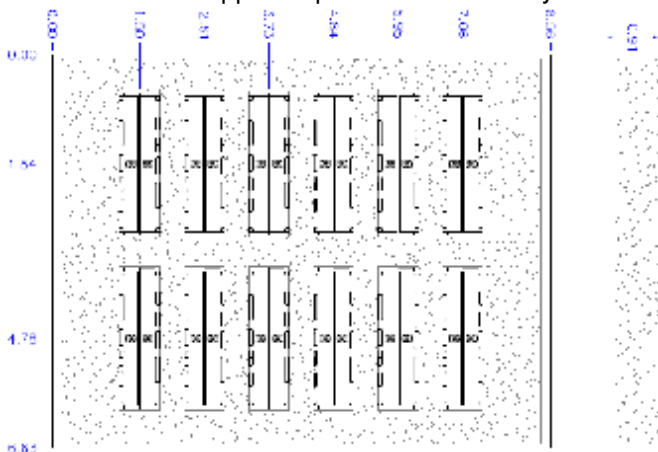
| Dim | Nominal (mm) | Tolerance (mm)<br>+/- or max |
|-----|--------------|------------------------------|
| A   |              |                              |
| B   | 61.85        | max                          |
| C   |              |                              |
| D   | 6.43         | 0.25                         |
| E   | 27.82        | 0.13                         |
| F   | 19.49        | 0.13                         |
| G   | 2.03         | 0.13                         |
| H   | 1.27         | 0.13                         |
| I   | 1.27         | 0.13                         |
| J   | 2.03         | 0.13                         |
| K   | 8.63         | max                          |
| L   | 6.30         | Max                          |
| M   | 8.00         | max                          |
| N   | 2.20         | 0.13                         |

### PCB Layout



### Packaging and Marking

Product is shipped in preformed foam trays



5 Trays containing 12 slots with 2 filters per slot. 5 Trays per box. Total 120 filters per box

Part Marking: CTS 87B YWW

### Electrical response

