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# CER0206B

1880 MHz PCS BPF

Rev 2 – Origin Date: November 8, 2005 – Revision Date: November 29, 2006

## Features

- Low Loss
- Low Ripple
- Small Size

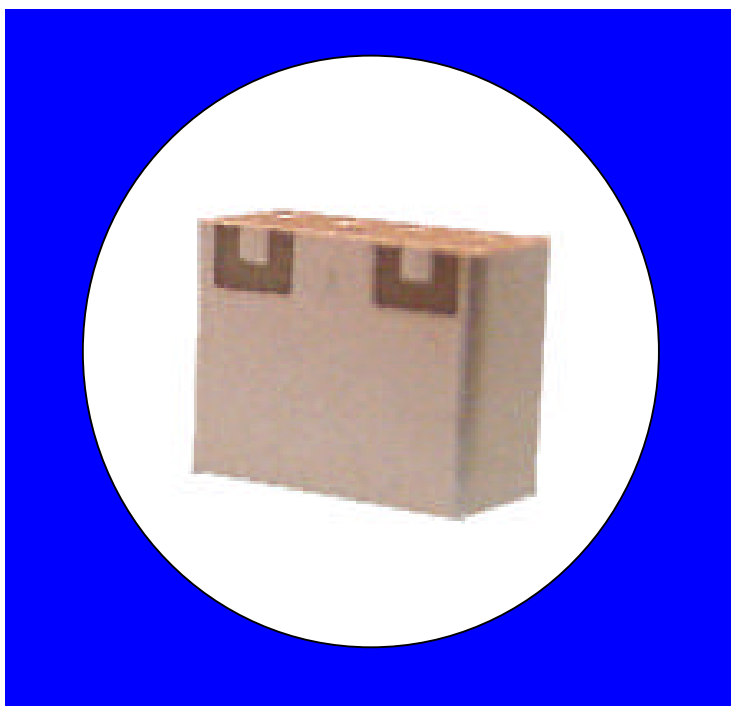
## Description

Surface mount, Silver (Ag) coated ceramic filter. Developed for use in PCS infrastructure applications.

Weight: .07 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 lloss	1850 - 1910	-2.9	-3.2	-3.5
Passband Ripple	1850 - 1910	2.2	2.5	2.6
Passband Return Loss @ TX	1850 - 1910	-12.0	-10.0	-10.0
Passband Return Loss @ Ant	1850 - 1910	-12.0	-10.0	-10.0
Attenuation	1930 - 1990	-32.5	-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:

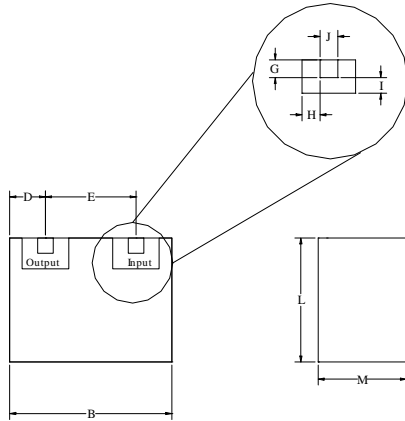
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

\*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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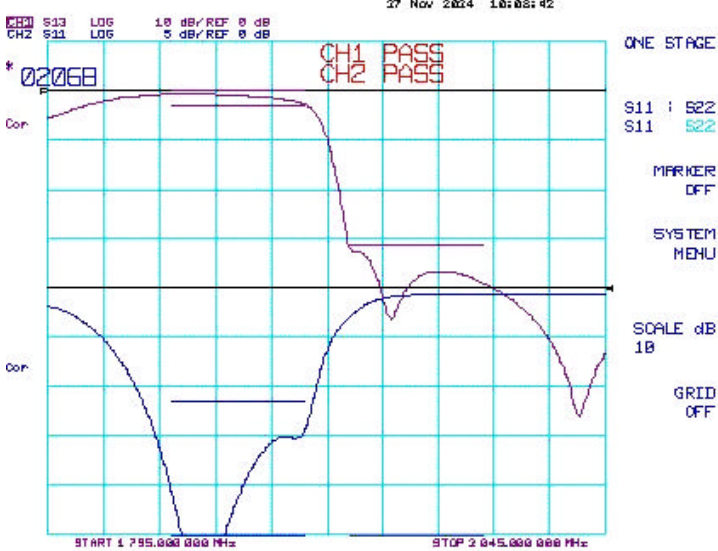
**Mechanical Drawing**

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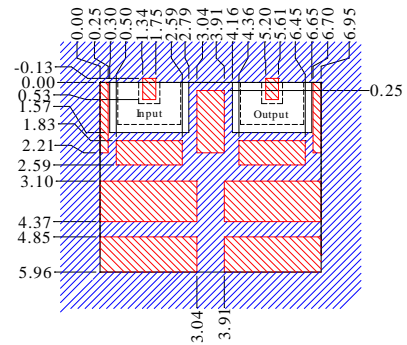


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A		
B	7.05	max
C		
D	1.55	0.25
E	3.86	0.13
F		
G	0.66	0.13
H	0.66	0.13
I	0.66	0.13
J	0.66	0.13
K		
L	5.9	max
M	4.0	max

**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	0.8
REEL QUANTITY	ea.	1000

