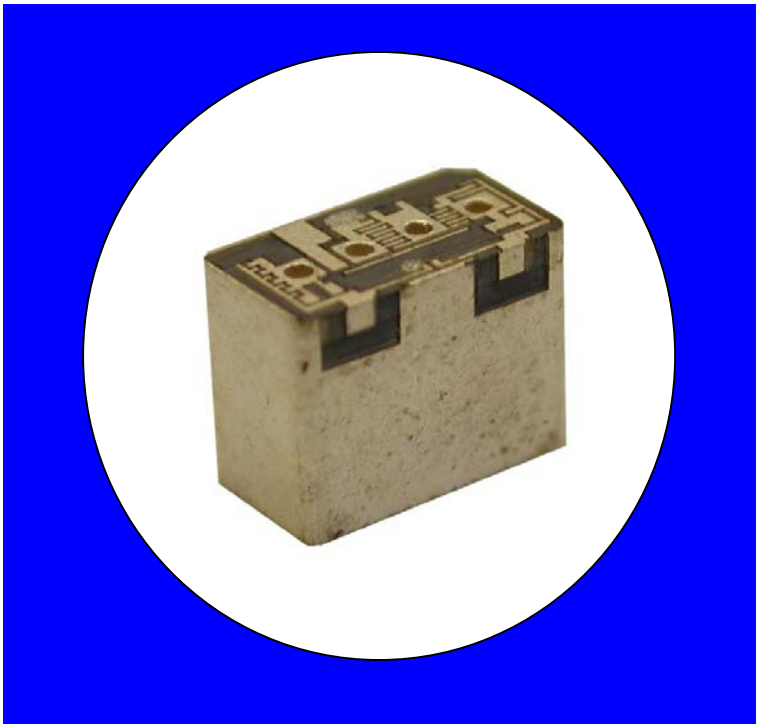
CER0110A

2140 MHz W-CDMA BPF

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

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 @ 25ºC	Spec. over -40ºC to +85ºC
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.

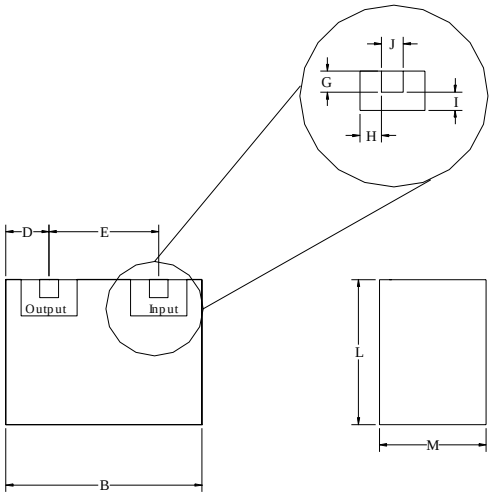
•CTS Corporation 2006 reserves all copyrights in the layout, design and configuration of the patterns on this product."

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2140 MHz W-CDMA BPF

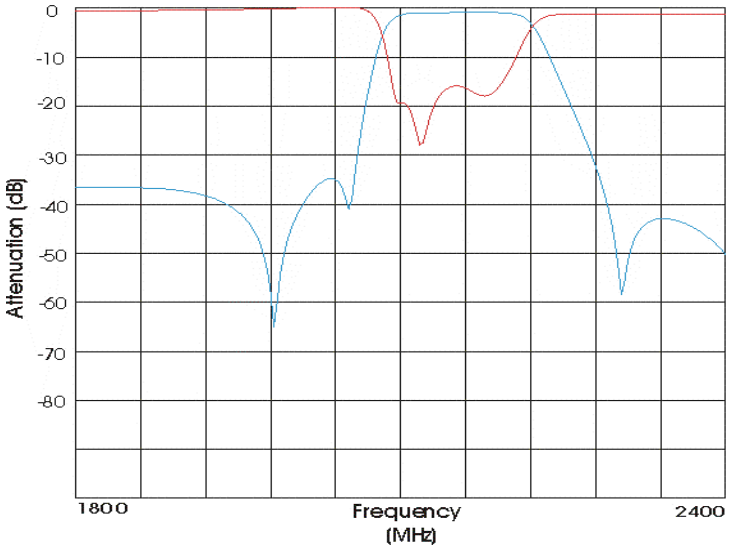
Rev 0 – Origin Date: July 11, 2005 – Revision Date: July 11, 2005

Mechanical Drawing

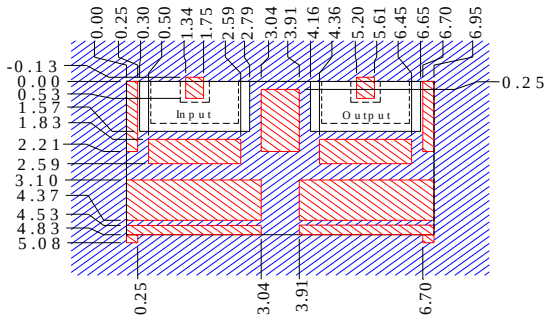


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A		
B	7.05	max
C		
D	1.55	0.25
E	3.86	0.13
F		
G	0.66	0.13
H	0.66	0.13
I	0.66	0.13
J	0.66	0.13
K		
L	5.03	max
M	3.93	max

Electrical response



PCB Layout



Dimensions are in mm. Tolerance = +/- 0.13

Filter Outline

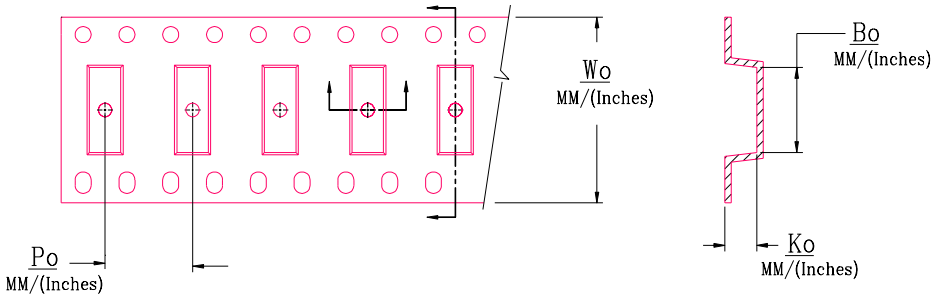
Exposed Conductor

Solder Resist Over Conductor

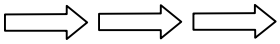
Solder Resist Over Dielectric

Packaging and Marking

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



Customer Feed Direction





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)