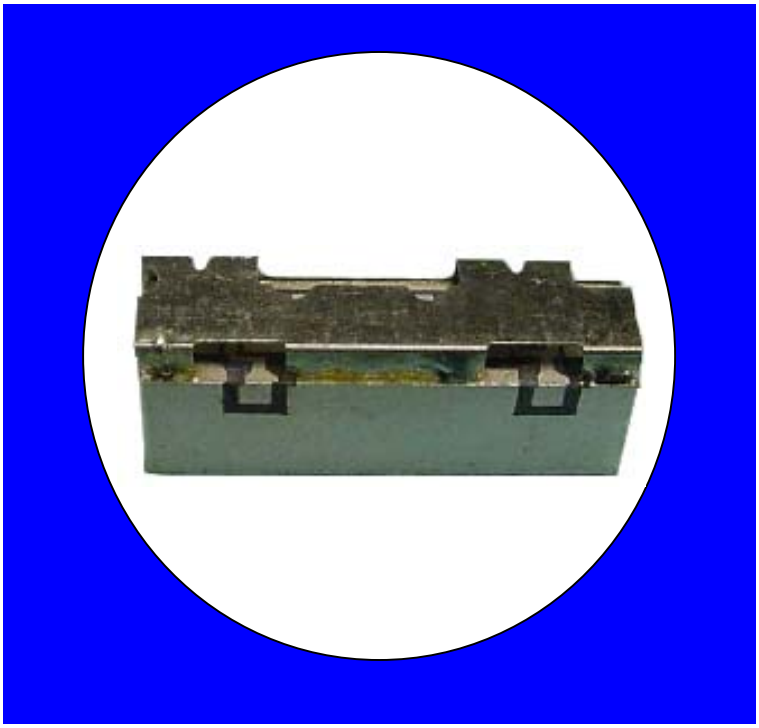
CER0202B

2140 MHz Monoblock LR Series BPF

Rev 1 – Origin Date: July 11, 2005 – Revision Date: August 1, 2005

Features

- Low Ripple
- High Rejection
- Low Loss



Description

Surface mount, silver (Ag) coated ceramic filter. Developed for use in W-CDMA repeater and base station applications, CTS Monoblock LR Series Filters are designed to minimize ripple and maximize rejection.

Weight: 4.7 grams typical

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

Filter complies with RoHS standards.

Electrical Specifications

Parameter	Frequency (MHz)	Typical @ 25ºC	Specification @ 25C	Spec. over -40ºC to +85ºC
Passband Insertion Loss	2110 – 2170	2.0 dB	2.3 dB	2.6 dB
Passband Ripple	2110 – 2170	0.7 dB	1.0 dB	1.2 dB
Passband Return Loss	2110 – 2170	12.5 dB	10.0 dB	10.0 dB
Attenuation:	2090	25.0 dB	22.0 dB	22.0 dB
	2190	25.0 dB	22.0 dB	22.0 dB
	1920 - 1980	40.0 dB	35.0 dB	35.0 dB
Power into any port		2 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.

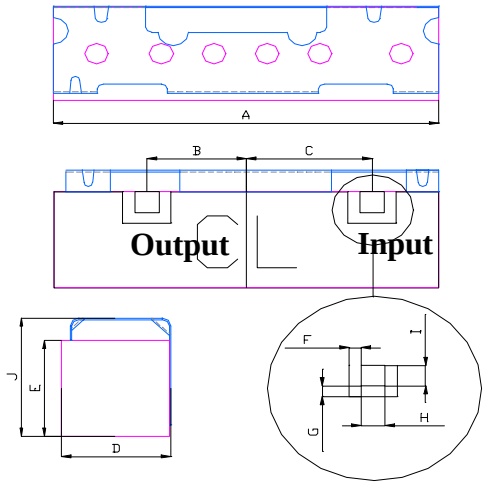
•CTS Corporation 2006 reserves all copyrights in the layout, design and configuration of the patterns on this product."

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2140 MHz Monoblock LR Series BPF

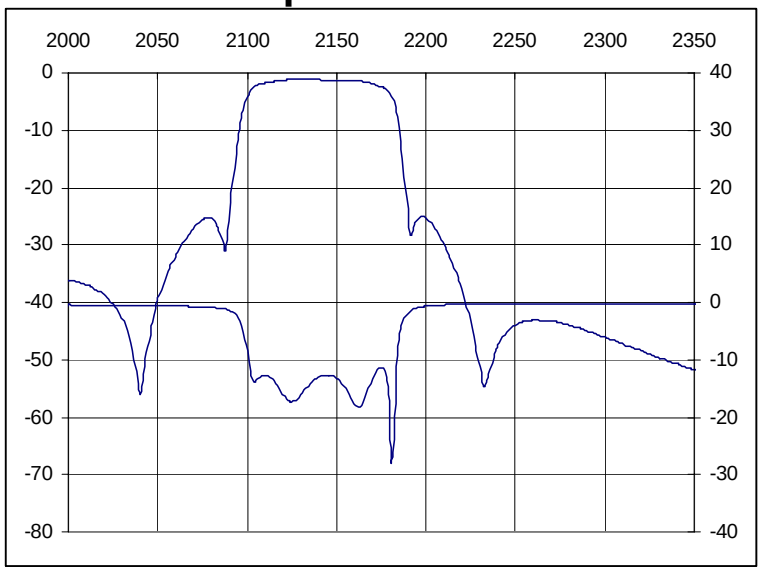
Rev 1 – Origin Date: July 11, 2005 – Revision Date: August 1, 2005

Mechanical Drawing

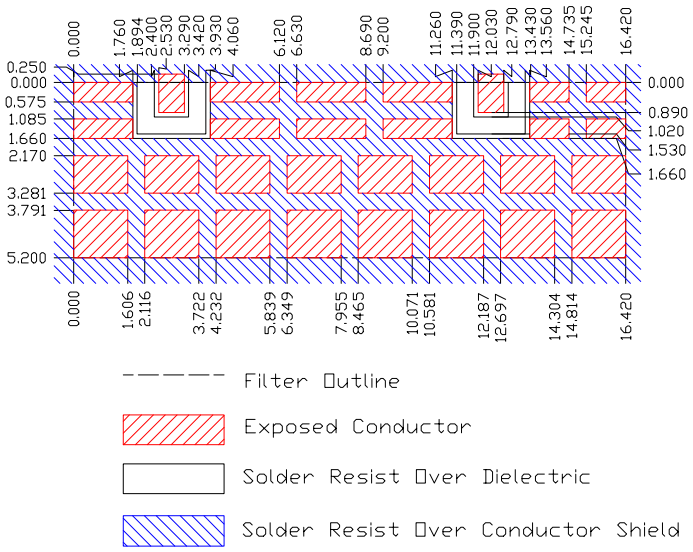


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	16.42	max
B	4.2	0.13
C	5.3	0.13
D	4.85	max
E	5.2	max
F	0.51	0.13
G	0.51	0.13
H	1.02	0.13
I	1.02	0.13
J	6.3	max

Electrical response

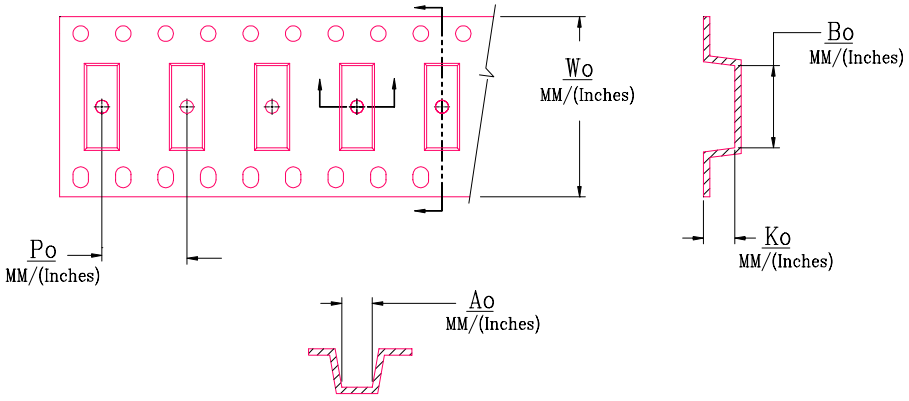


PCB Layout

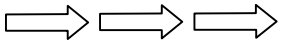


Packaging and Marking

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	3.1
REEL QUANTITY	ea.	500



Customer Feed Direction





MODEL NO.	Wo	Ao	Bo	Ko	Po
CER0202	24.0/(0.945)	6.50/(0.256)	16.7/(0.657)	5.10/(0.201)	12.0/(0.472)