



Distributor of CTS Electronic Components: Excellent Integrated System Limited

Datasheet of CER0349B - CERAMIC FILTER

Contact us: [sales@integrated-circuit.com](mailto:sales@integrated-circuit.com) Website: [www.integrated-circuit.com](http://www.integrated-circuit.com)

---

## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[CTS Electronic Components](#)

[CER0349B](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



# CER0349B

3500 MHz BPF

Rev 2 – Origin Date: April 10, 2006 – Revision Date: May 9, 2007

## Features

- Small Size
- Low Ripple
- High Rejection

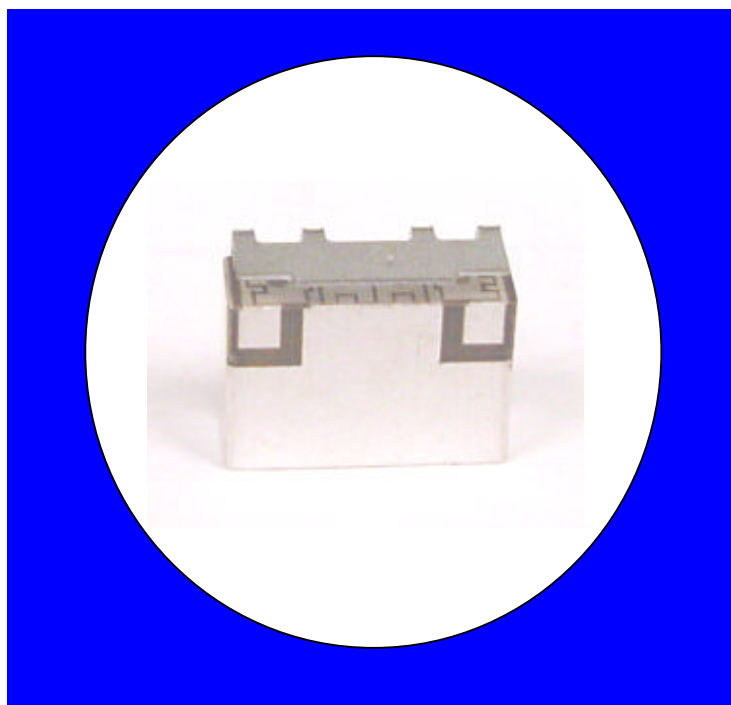
## Description

Surface mount, silver (Ag) coated barium ceramic filter.

Weight: 1.0 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 Iloss	3400 - 3600	-1.20	-1.70	-2.00
Passband Ripple	3400 - 3600	0.60	1.00	1.00
Passband Return Loss @ Port 1	3400 - 3600	-15.00	-12.00	-12.00
Passband Return Loss @ Port 2	3400 - 3600	-15.00	-12.00	-12.00
Attenuation	0.1 - 3240	-30.00	-28.00	-28.00
	3760 - 6000	-30.00	-28.00	-28.00
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:

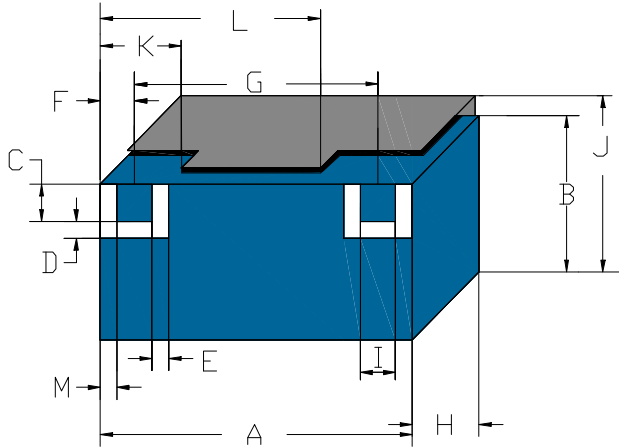
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

\*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.\*

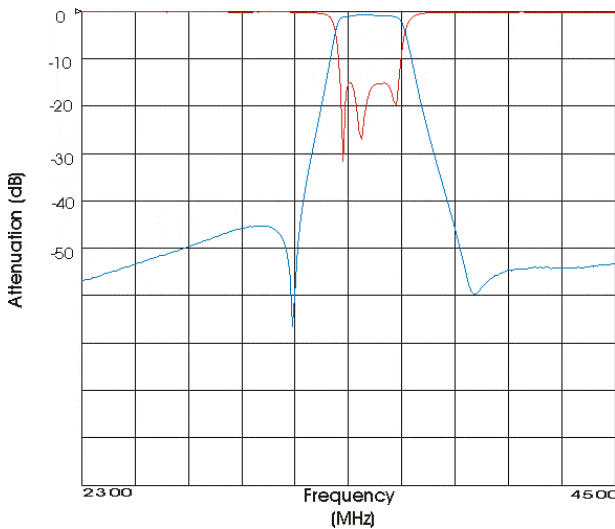
**Mechanical Drawing**

Rev 2 – Origin Date: April 10, 2006 – Revision Date: May 9, 2007

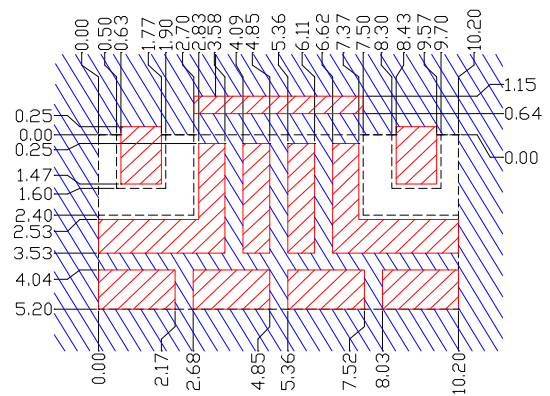


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	10.20	Max
B	5.20	Max
C	1.60	0.13
D	0.80	0.13
E	0.80	0.13
F	1.20	0.13
G	7.80	0.13
H	4.00	Max
I	1.40	0.13
J	6.20	Max
K	2.70	0.13
L	7.50	0.13
M	0.50	0.13

**Electrical response**



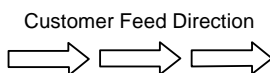
**PCB Layout**



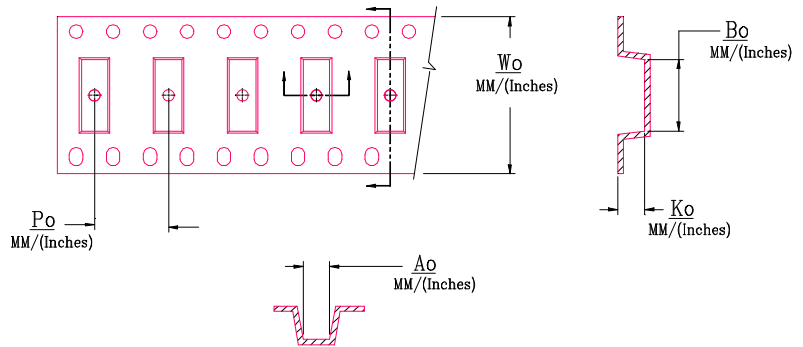
- Filter Outline
- Exposed Conductor
- Solder Resist Over Dielectric
- Solder Resist Over Conductor

**Packaging and Marking**

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	1.6
REEL QUANTITY	ea.	1000



CTS  
49B  
YWW



Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
0.945"/24	0.260"/6.60	0.406"/10.20	0.165"/4.20	0.472"/12.00