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# CER0188A

3425 MHz BPF

Rev 1 – Origin Date: February 3, 2006 – Revision Date: April 7, 2006

## Features

- Low Loss
- Low Ripple

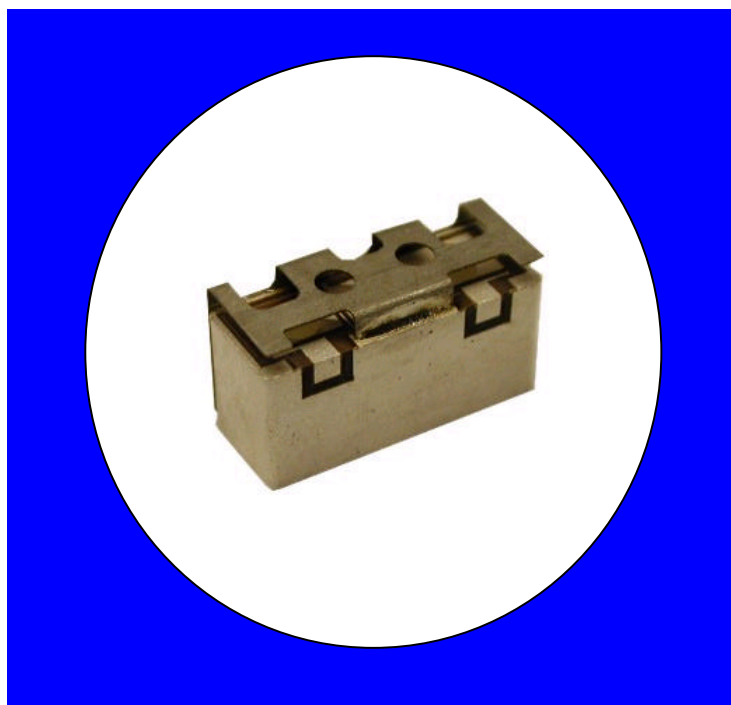
## Description

Surface mount, silver (Ag) coated ceramic filter for use in broadband applications.

Weight: 1.1 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
<b>TX to Antenna Response</b>				
Passband Iloss	3400 - 3450	-0.95	-1.30	-1.50
Passband Ripple	3400 - 3450	0.20	0.50	0.50
Passband Return Loss @ TX	3400 - 3450	-17.00	-14.00	-14.00
Passband Return Loss @ Ant	3400 - 3450	-17.00	-14.00	-14.00
Attneuation	0.1 - 3200	-45.00	-40.00	-40.00
	3325	-15.00	-10.00	-10.00
	3525	-14.00	-10.00	-10.00
	3700 - 5800	-43.00	-40.00	-40.00
Power into any port		1 Watt max		

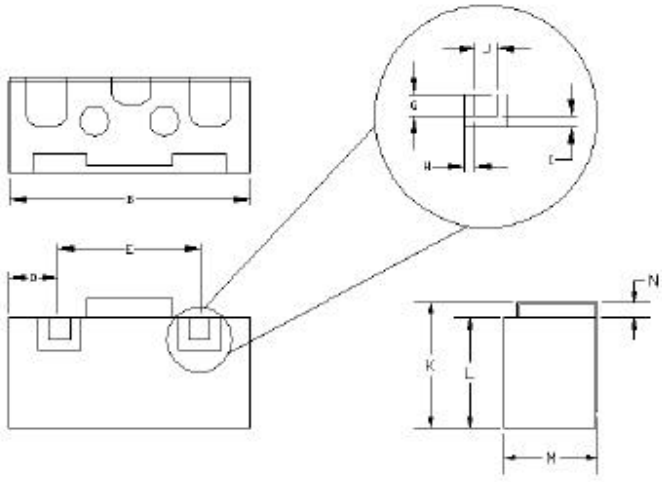
Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

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.

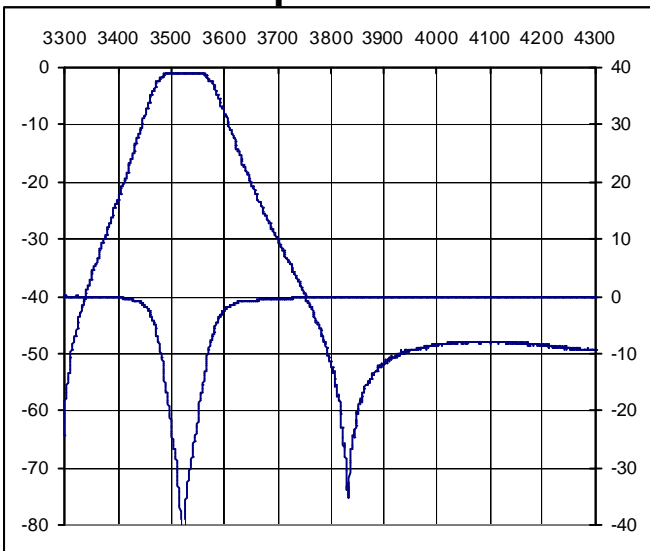
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**Mechanical Drawing**

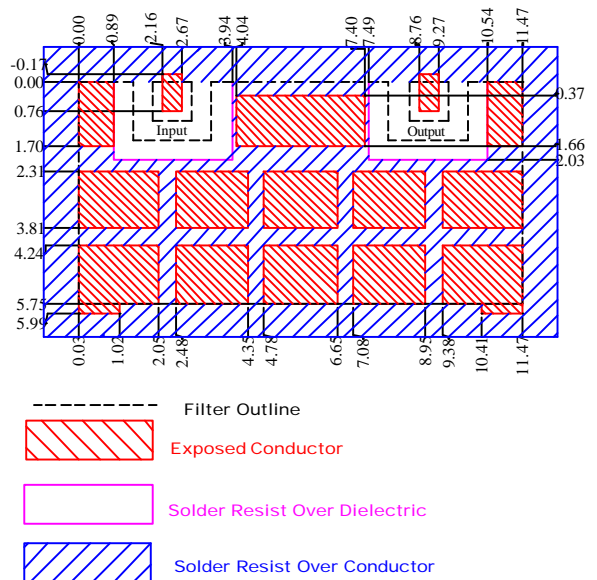


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A		
B	11.75	Max
C		
D	2.41	0.13
E	6.6	0.13
F		
G	1.02	0.13
H	0.51	0.13
I	0.51	0.13
J	1.02	0.13
K	6.9	Max
L	5.9	Max
N	1.03	0.13
M	4.6	Max

**Electrical response**

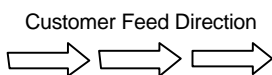


**PCB Layout**



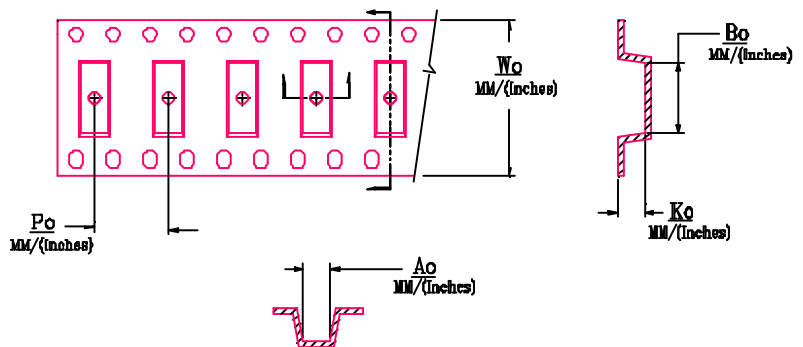
**Packaging and Marking**

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	1.7
REEL QUANTITY	ea.	1000



**Product Marking**

CTS  
183  
YWW



Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
1.732"/44	0.274"/6.95	1.031"/26.20	0.207"/5.25	0.472"/12.00