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# CER0689A

707 MHz BPF

Revision B – Origin Date: October 26, 2008 – Revision Date: July 28, 2011

## Features

- Low Loss
- High Rejection
- Low Ripple

## Description

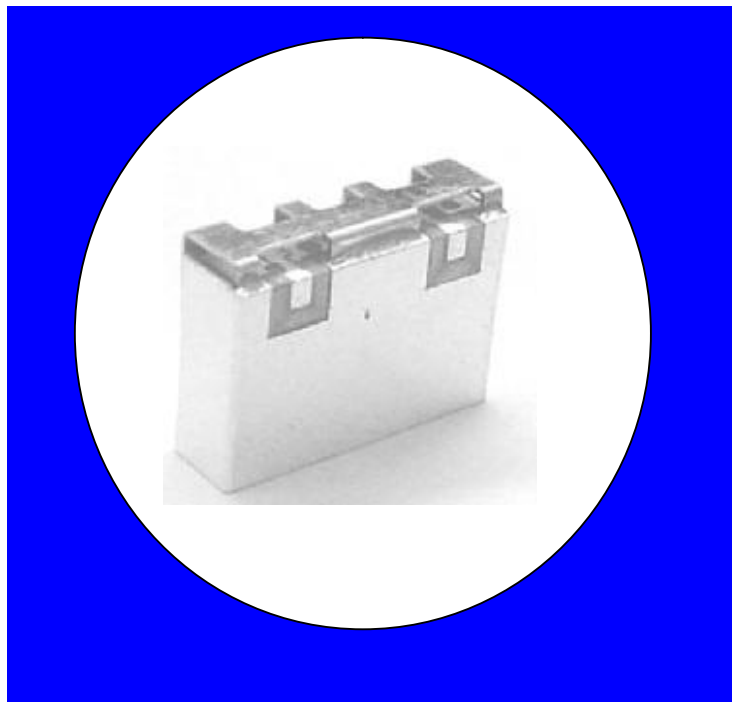
Surface mount, Silver (Ag) coated barium ceramic filter.

Weight: 3.4 grams typical

Material: Filter is composed of a ceramic block plated with Ag and a shield of tin coated cold rolled steel.

Filter complies with RoHS standards.

## Electrical Specifications



Parameter	Frequency MHz	Typical @ 25°C	Specification @ 25°C	Spec over -40°C to +85°C
<b>Response</b>				
Passband lloss	698 - 716	-2.00	-2.40	-2.50
Passband Ripple	698 - 716	0.90	0.90	1.00
Passband Return Loss @ Port 1	698 - 716	-14.50	-12.00	-12.00
Passband Return Loss @ Port 2	698 - 716	-14.50	-12.00	-12.00
Attenuation	0.1 - 250	-34.00	-31.00	-30.00
	250 - 675	-28.00	-26.00	-25.00
	675 - 688	-16.00	-13.00	-12.00
	726 - 750	-19.00	-16.00	-15.00
	750 - 900	-29.00	-26.00	-25.00
	936	-44.00	-41.00	-40.00
	1000 - 1600	-27.00	-26.00	-25.00
Power into any port		3 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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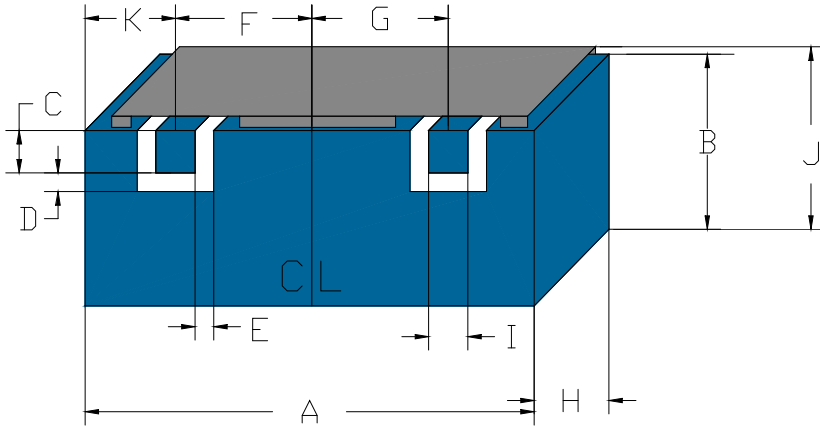


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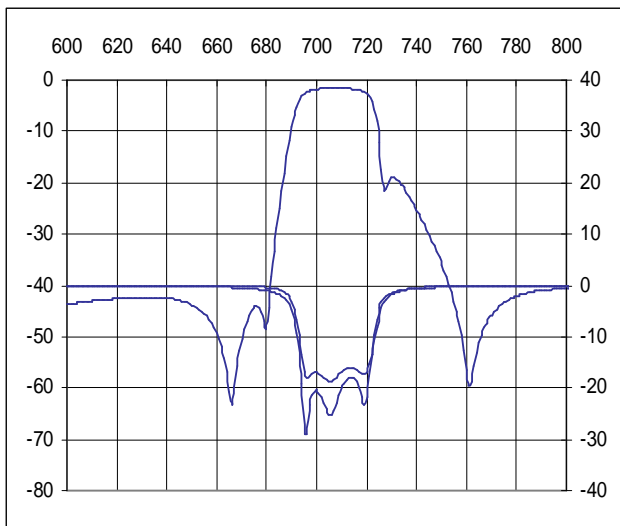
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## Mechanical Drawing

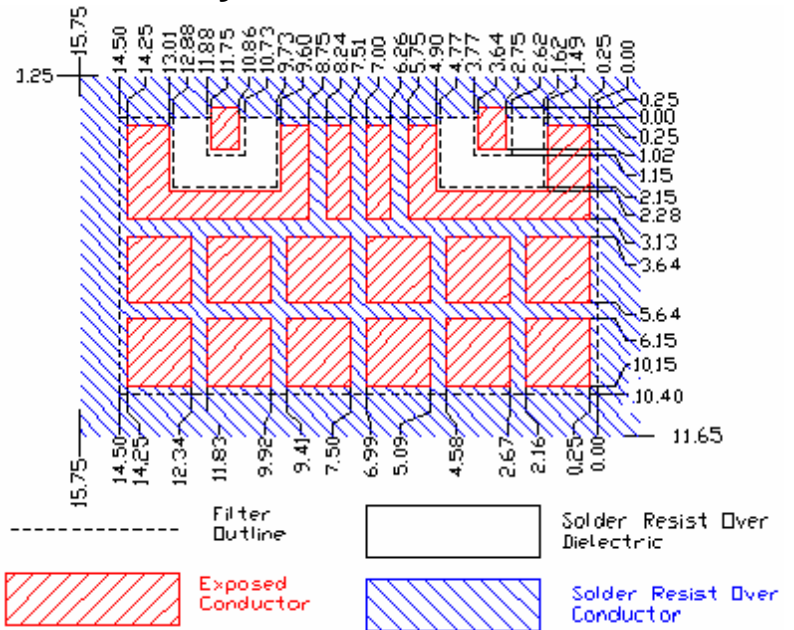


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	14.6	max
B	10.4	Max
C	1.15	0.13
D	1.00	0.13
E	1.00	0.13
F	4.064	0.1
G	4.064	0.1
H	4.50	0.2
I	1.00	0.13
J	11.7	Max
K	3.1	0.13

## Electrical response

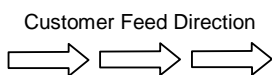


## PCB Layout



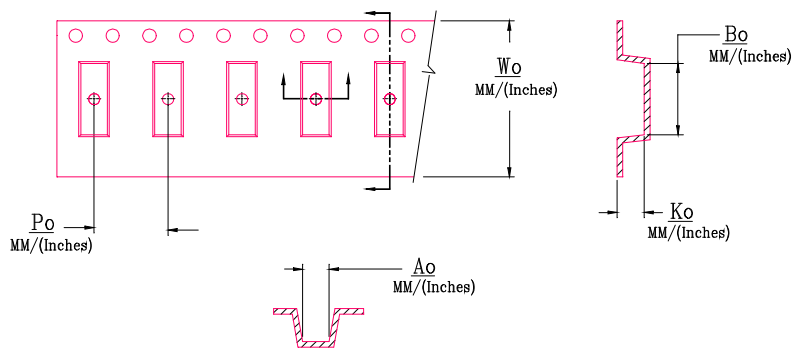
## Packaging and Marking

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	2.5
REEL QUANTITY	ea.	750



### Product Marking

CTS  
689  
YWW



Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
0.945"/24	0.472"/12	0.586"/14.9	0.189"/4.8	0.630"/16