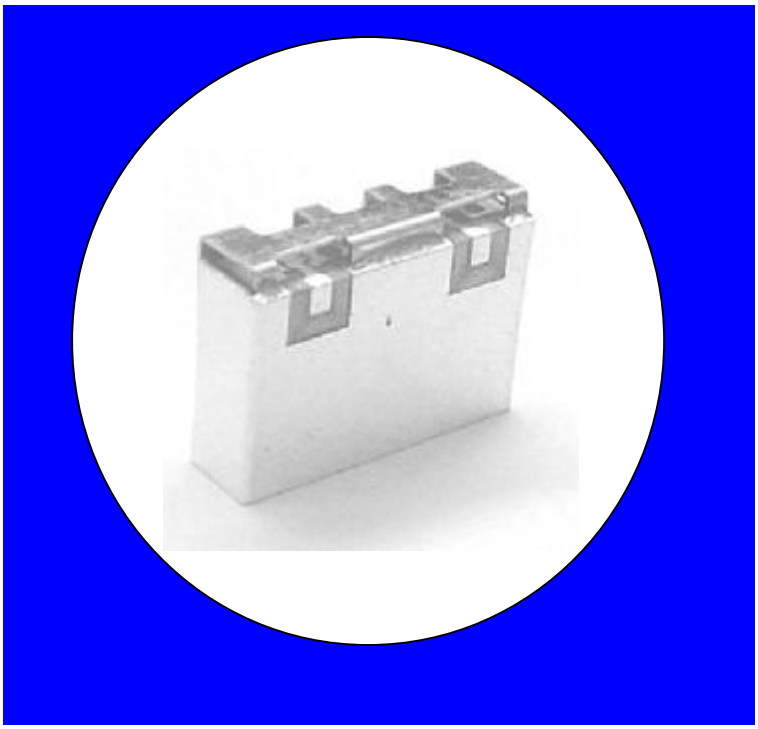
CER0688A

781.5 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 ceramic filter.

Weight: 3.1 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 @ 25ºC	Specification @ 25ºC	Spec over -40ºC to +85ºC
Response				
Passband Iloss	776 - 787	-2.00	-2.40	-2.50
Passband Ripple	776 - 787	0.90	0.90	1.00
Passband Return Loss @ Port 1	776 - 787	-14.50	-12.00	-12.00
Passband Return Loss @ Port 2	776 - 787	-14.50	-12.00	-12.00
Attenuation	0.1 - 250	-34.00	-31.00	-30.00
	220 - 750	-28.00	-26.00	-25.00
	750 - 766	-19.00	-16.00	-15.00
	797 - 815	-16.00	-13.00	-12.00
	815 - 938	-29.00	-26.00	-25.00
	968	-44.00	-41.00	-40.00
	1000 - 1600	-33.00	-31.00	-30.00
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:

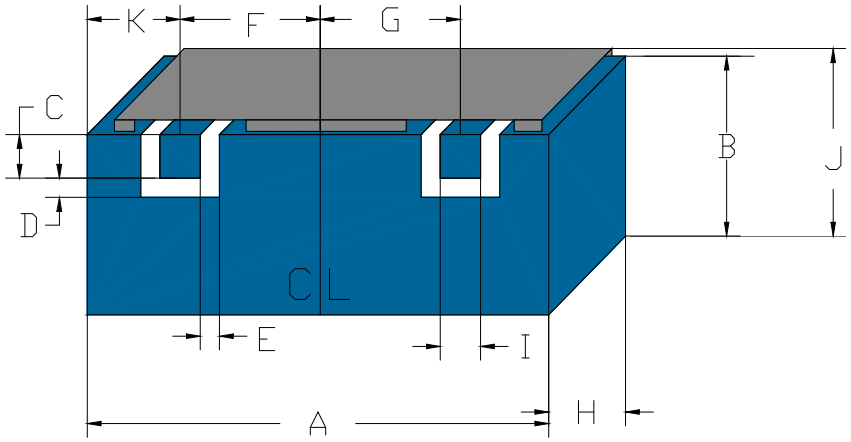
Specification	Allowance
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

•"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.

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

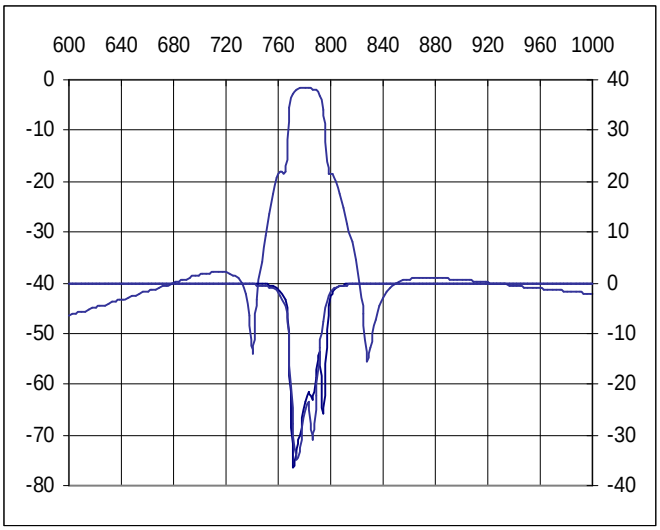
Revision B – Origin Date: October 26, 2008 – Revision Date: July 28, 2011

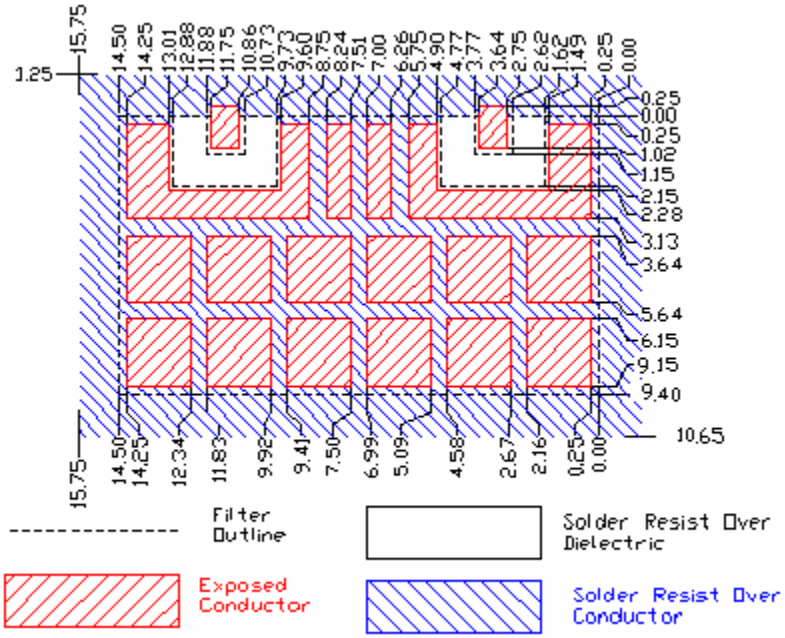
Mechanical Drawing



Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	14.6	max
B	9.4	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	max
I	1.00	0.13
J	10.7	max
K	3.1	0.13

Electrical response

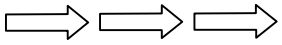




Packaging and Marking

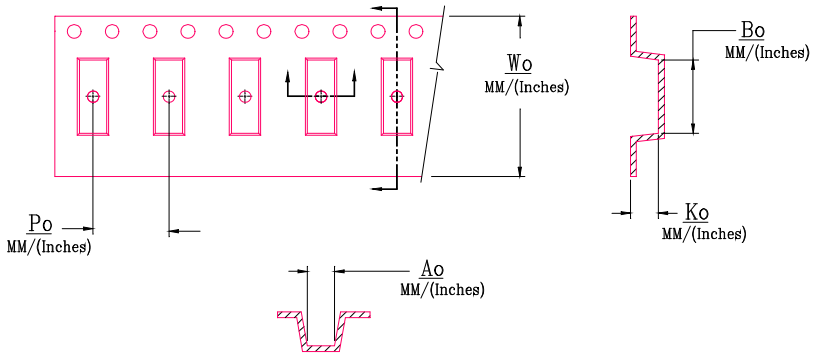
DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	2.3
REEL QUANTITY	ea.	750

Customer Feed Direction



Product Marking

CTS
688
YWW



Wo Inches/mm	Ao Inches/mm	Bo Inches/mm	Ko Inches/mm	Po Inches/mm
0.945"/24	0.433"/11	0.586"/14.9	0.189"/4.8	0.630"/16