

Features

- Small Size
- High Rejection
- Low Loss

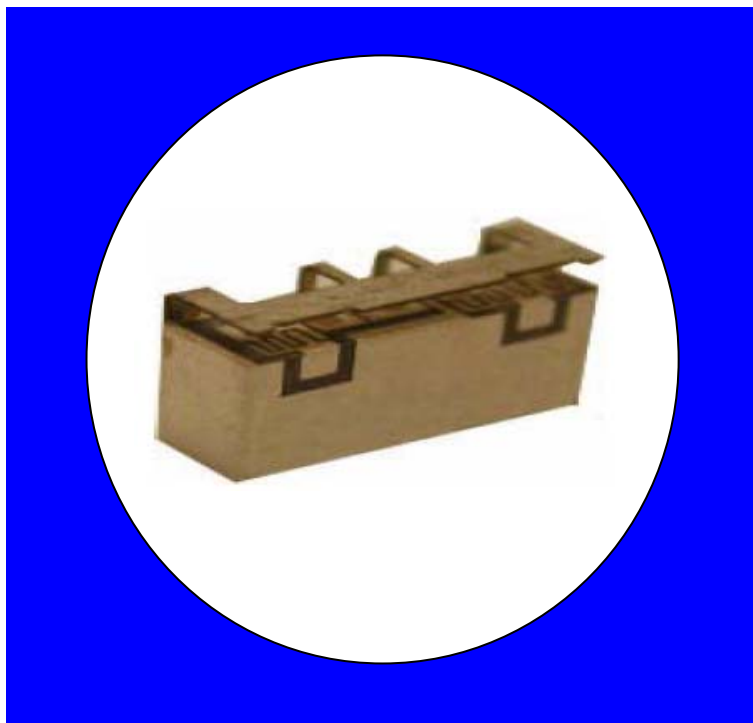
Description

Surface mount, silver (Ag) coated ceramic filter. Developed for use in Infrastructure applications, CTS Monoblock Series Filters are designed to minimize ripple and maximize rejection.

Weight: 0.33 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	3010 - 3070	-2.50	-2.80	-3.00
Passband Ripple	3010 - 3070	0.40	0.60	0.70
Passband Return Loss @ Port 1	3010 - 3070	-14.0	-10.00	-10.00
Passband Return Loss @ Port 2	3010 - 3070	-14.0	-10.00	-10.00
Attenuation	2800	-45.0	-40.00	-40.00
	2940	-24.0	-20.00	-20.00
	3140	-32.0	-20.00	-20.00
	3300	-45.00	-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:

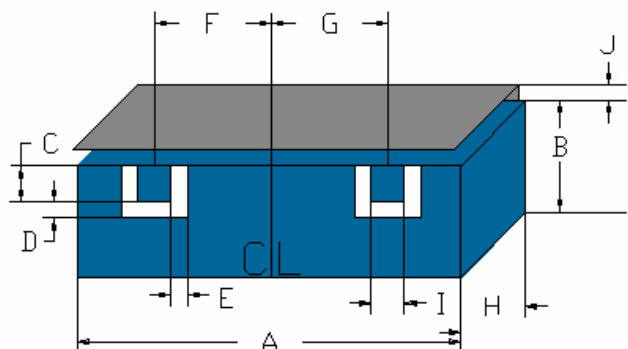
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

*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.

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

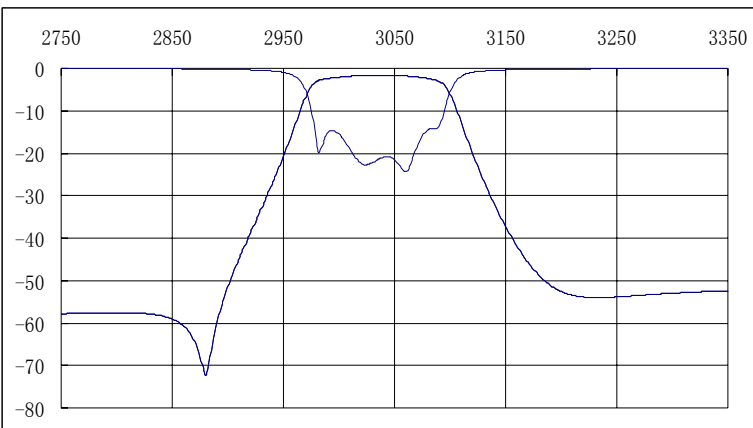
Mechanical Drawing

Preliminary Rev B – Origin Date: Mar 5, 2012 – Revision Date: Mar 7, 2012

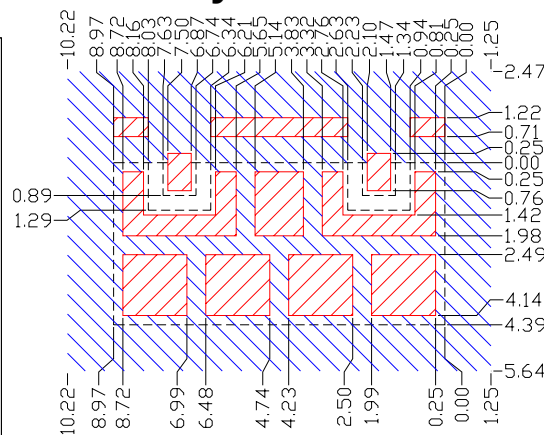


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	8.97	Max
B	6.43	Max
C	0.89	0.13
D	0.40	0.13
E	0.40	0.13
F	2.70	0.25
G	2.70	0.25
H	3.10	Max
I	0.89	0.13
J	0.96	Max

Electrical response



PCB Layout



Filter Outline

Solder Resist
Over Dielectric



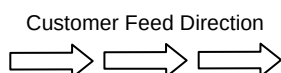
Exposed Conductor



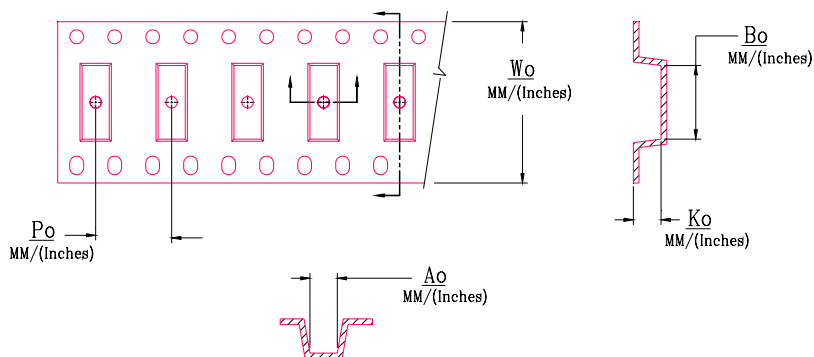
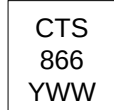
Solder Resist
Over Conductor

Packaging and Marking

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



Product Marking



Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
0.630" / 16	TBD	0.360" / 9.14	0.120" / 3.04	0.472" / 12.0