

### Features

- Low Loss
- Excellent Rejection

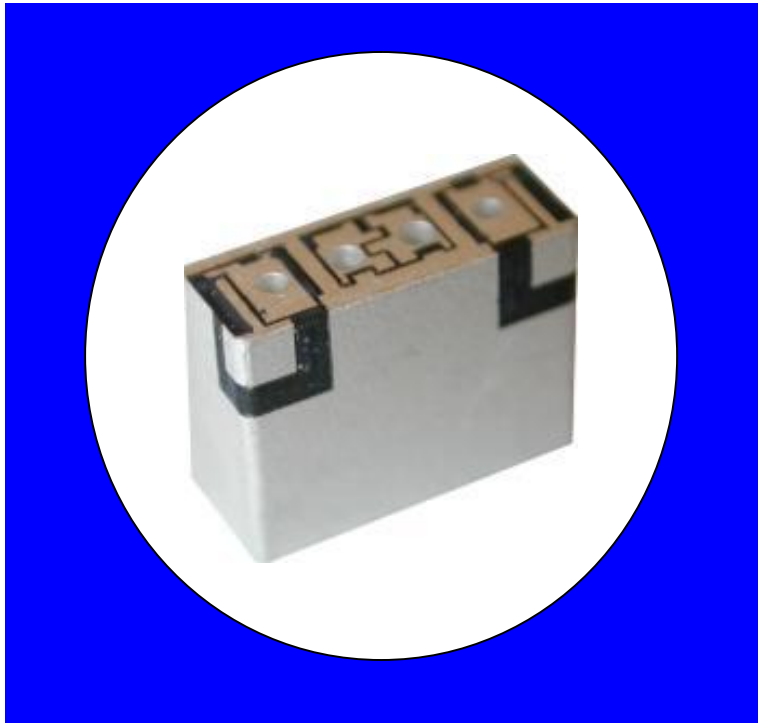
### Description

Surface mount, silver (Ag) coated ceramic filter.

Weight: 1.0 grams typical

Material: Filter is composed of a ceramic block coated with Ag.

Filter complies with RoHS standards.



### Electrical Specifications

Parameter	Frequency MHz	Typical @ 25°C	Specification @ 25°C
Passband lloss	1131 - 1221	-1.0	-1.5
Passband Flatness (CTS Ripple)	1131 - 1221	0.2	0.5
Passband Ripple	1131 - 1221	0.1	0.3
Passband Return Loss @ Port 1	1131 - 1221	-15.0	-13.0
Passband Return Loss @ Port 2	1131 - 1221	-15.0	-13.0
Passband Group Delay	1131 - 1221	5.0	7.0
Attenuation	0.1 - 650	-50.0	-40.0
	1000	-43.0	-40.0
	1400	-43.0	-40.0
	1700	-42.0	-40.0
Power into any port		1 Watt max	

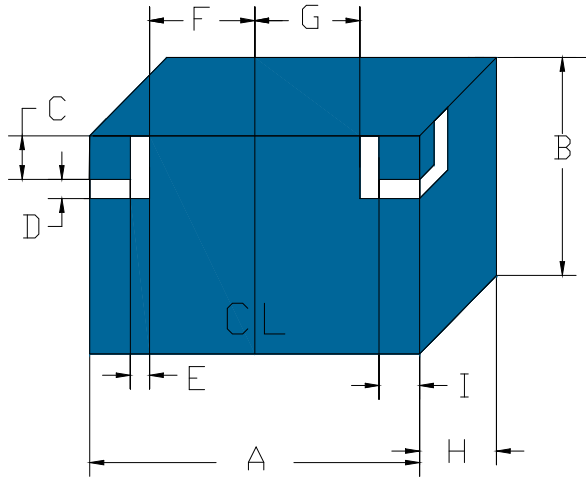
Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

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

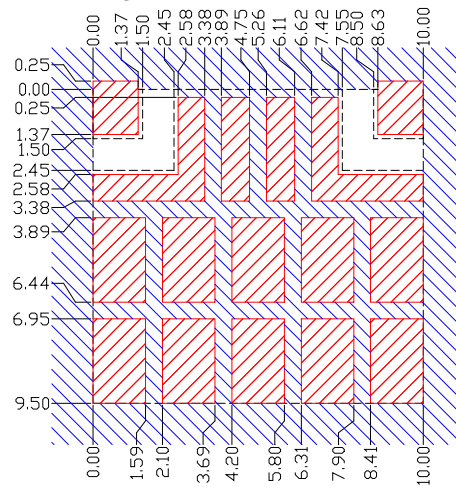


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	10.00	Max
B	9.50	Max
C	1.50	0.13
D	0.95	0.13
E	0.95	0.13
F	2.55	0.13
G	2.55	0.13
H	4.00	Max
I	1.50	0.13

## Electrical response



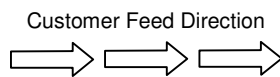
## PCB Layout



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

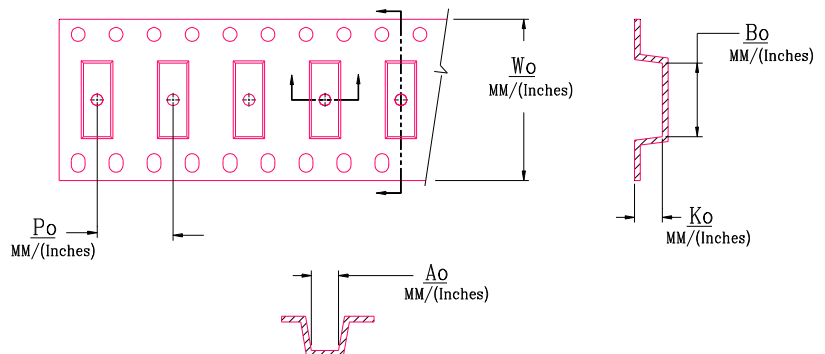
## Packaging and Marking

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



### Product Marking

CTS  
359  
YWW



Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
0.945"/24	0.382"/9.7	0.406"/10.30	0.165"/4.20	0.630"/12.00