

### Features

- Low Loss
- High Rejection
- Excellent Return Loss

### Description

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

Weight: 13.5 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	Spec. @ 25°C
Insertion Loss	1027-1033	1.45 dB	1.7 dB max
Forward Return Loss	1027-1033	15.0 dB	12.0 dB min
Attenuation:	1005	25.0 dB	15.0 dB min
Attenuation:	1055	34.0 dB	18.0 dB min
Attenuation:	1090	68.0 dB	40.0 dB min
Power Rating			1W
Impedance			50Ω

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:

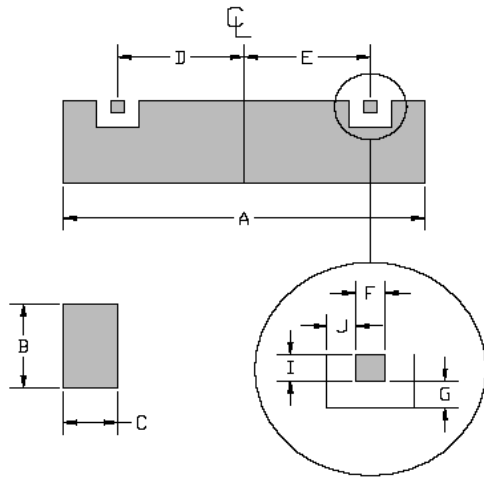
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

\*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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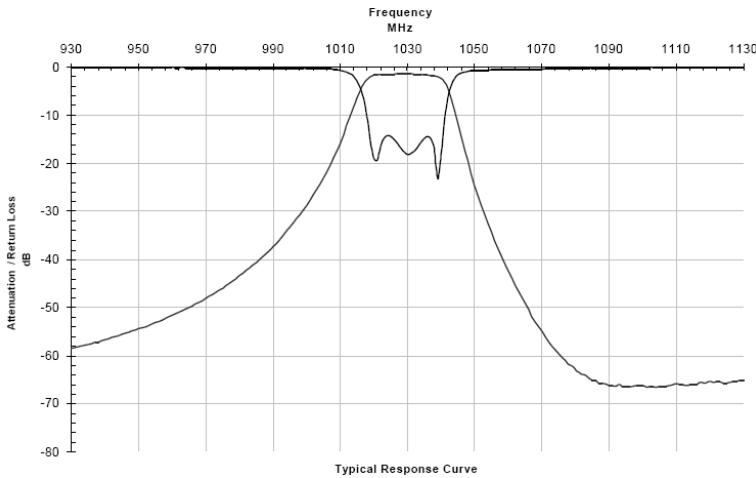
### Mechanical Drawing

Rev 0 – Origin Date: July 11, 2005 – Revision Date: July 11, 2005

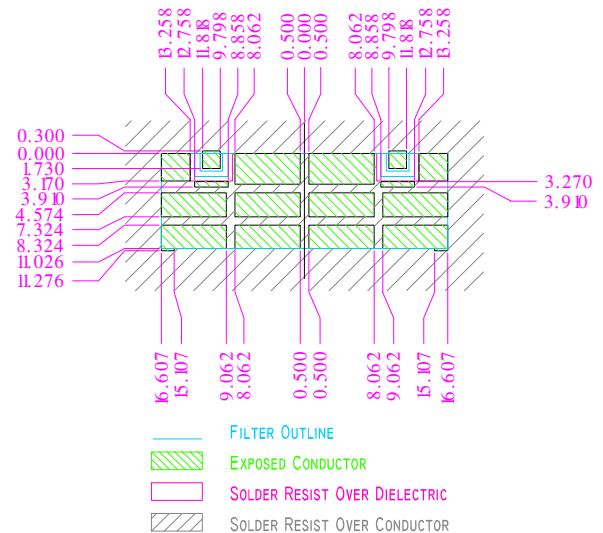


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	33.58	max
B	11.25	max
C	7.85	max
D	10.808	0.127
E	10.808	0.127
F	2.616	0.127
G	0.635	0.127
H		
I	2.032	0.127
J	0.635	0.127

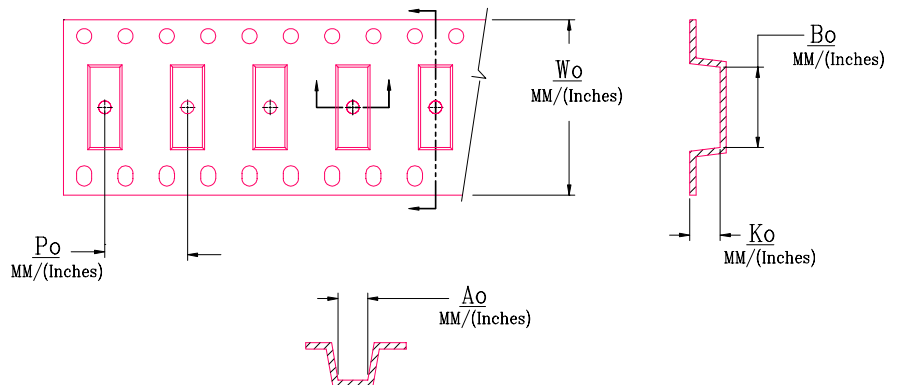
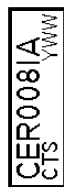
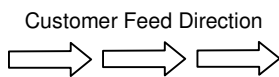
### Electrical response



### PCB Layout



### Packaging and Marking



DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	4.1
REEL QUANTITY	ea.	250

MODEL NO.	Wo	Ao	Bo	Ko	Po
CER0081A	56.0/(2.205)	11.53/(0.454)	34.34/(1.352)	8.08/(0.318)	19.99/(0.787)