

Features

- Small Size
- Low Ripple
- High Rejection

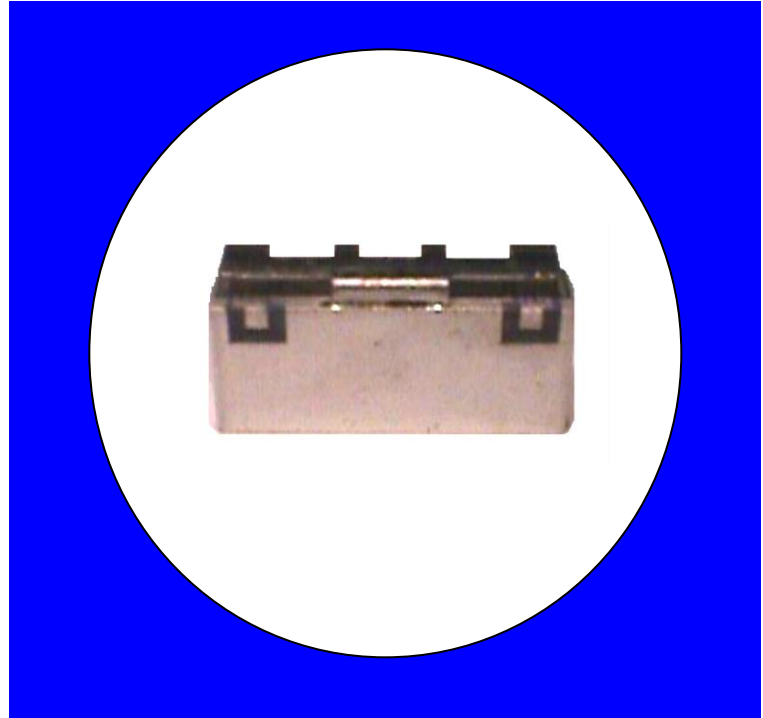
Description

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

Weight: 2.0 grams typical.

Material: Filter is composed of a ceramic block plated with Ag and a shield made of nickel silver plated steel.

Filter complies with RoHS standards.



Electrical Specifications

Parameter	Frequency MHz	Typical @ 25°C	Specification @ 25°C	Spec over -55°C to +85°C
Passband Insertion Loss	1560 - 1587.42	-3.6	-3.8	-4.0
Insertion Loss at F0	1575.42	-2.7	-2.9	-3.0
Passband Ripple	1560 - 1587.42	0.8	1.2	1.3
Passband Return Loss	1560 - 1587.42	-14.0	-12.0	-12.0
Group Delay Variation in Passband	1560 - 1587.42	7 ns	12.5 ns max	12.5 ns max
Attenuation, dB	0.1 - 1400	-55.0	-53.0	-53.0
	1400 - 1505.42	-50.0	-35.0	-35.0
	1505.42 - 1525	-32.0	-29.0	-29.0
	1525 - 1536	-20.0	-17.0	-17.0
	1536 - 1547	-8.0	-5.0	-5.0
	1605.42 - 1615	-23.0	-21.0	-21.0
	1615.42 - 1625.42	-45.0	-37.0	-37.0
	1625.42 - 2500	-55.0	-53.0	-53.0
Power into any port		2 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

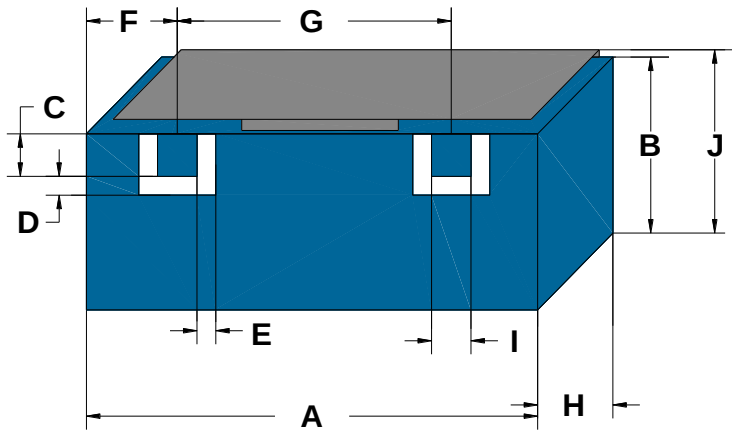
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

*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 931062 28.4;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

Rev A – Origin Date: June 21, 2024 – Revision Date: June 21, 2024

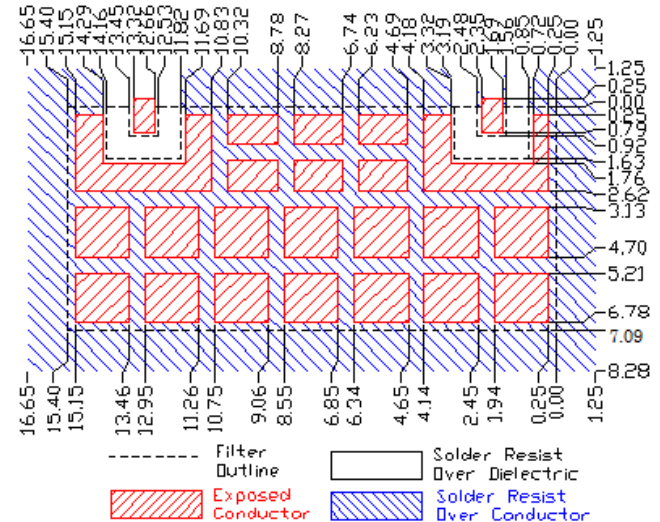


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	14.95	15.40 MAX
B	6.48	7.09 MAX
C	0.92	0.13
D	0.71	0.13
E	0.71	0.13
F	2.02	0.25
G	10.97	0.13
H	4.35	MAX
I	0.92	0.13
J	7.75	8.30 MAX

Electrical Response

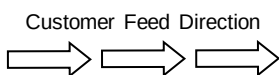


PCB Layout

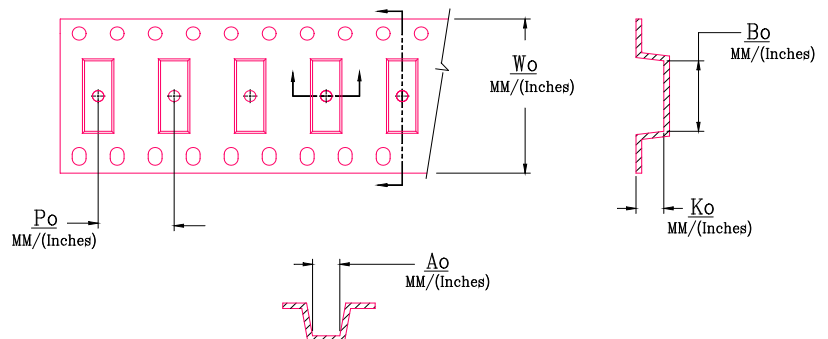


Packaging and Marking

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	1.5
REEL QUANTITY	ea.	850



CTS
48F
YWW



Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
0.945"/24mm	0.339"/8.60mm	0.622"/15.8mm	0.185"/4.70mm	0.472"/12mm