

Features

- Low Ripple
- High Rejection
- Low Loss

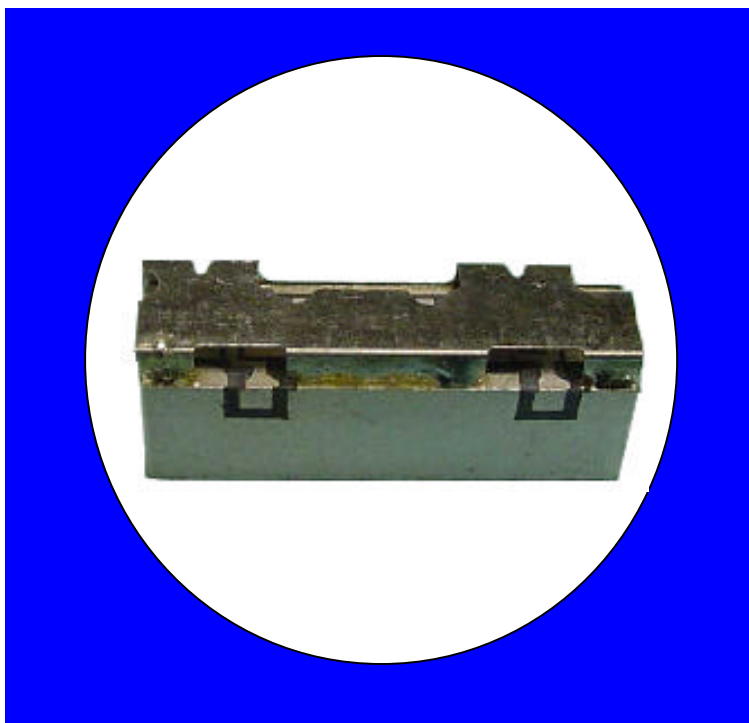
Description

Surface mount, silver (Ag) coated ceramic filter. Developed for use in W-CDMA repeater and base station applications, CTS Monoblock LR Series Filters are designed to minimize ripple and maximize rejection.

Weight: 4.7 grams typical

Material: Filter is composed of a ceramic block coated 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 -40°C to +85°C
Passband Iloss	5470 - 5725	-1.4	-1.7	-2.0
Passband Ripple	5470 - 5725	0.4	0.7	0.8
Passband Return Loss @ Port 1	5470 - 5725	-13.0	-10.0	-10.0
Passband Return Loss @ Port 2	5470 - 5725	-13.0	-10.0	-10.0
Attenuation	5320	-28.0	-25.0	-25.0
	5850	-23.0	-10.0	-20.0
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

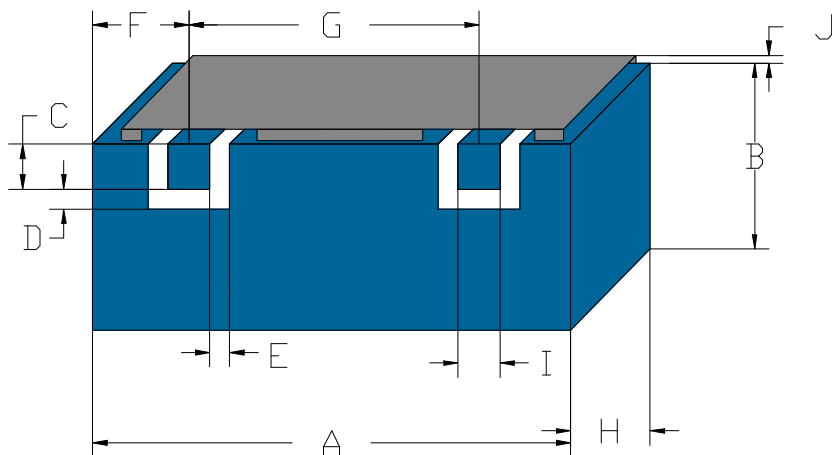
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

*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.

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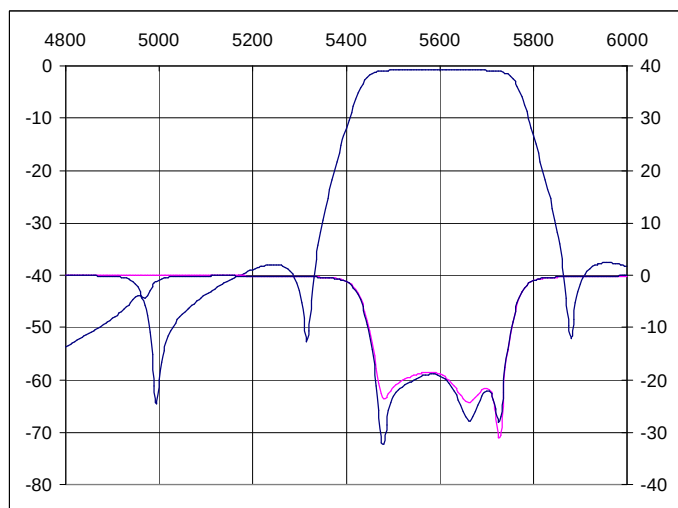
Mechanical Drawing

Rev 1 – Origin Date: July 31, 2006 – Revision Date: January 12, 2007

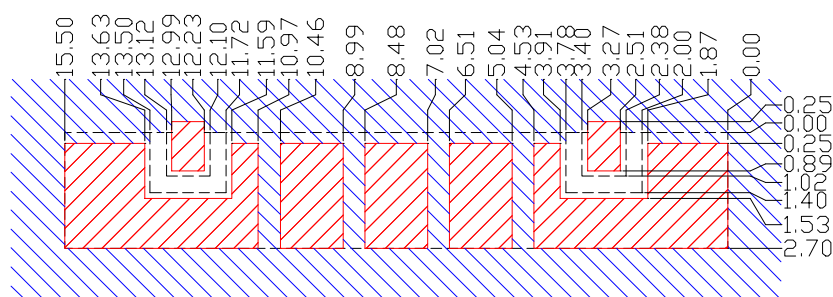


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	15.50	max
B	2.70	max
C	1.02	0.13
D	0.38	0.13
E	0.38	0.13
F	2.89	0.13
G	9.72	0.13
H	4.30	max
I	1.02	0.13
J	1.00	max

Electrical response



PCB Layout



----- Filter Outline

 Exposed Conductor

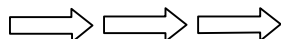
☐ Solder Resist Over Dielectric

 Solder Resist Over Conductor

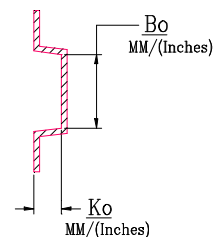
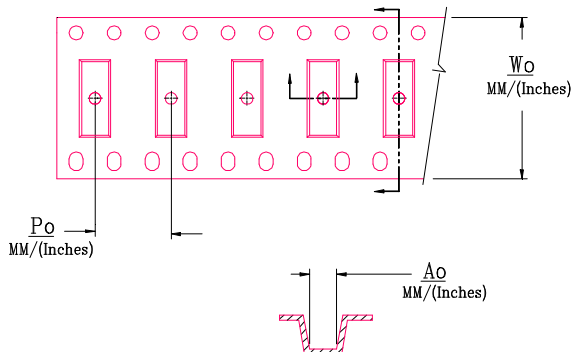
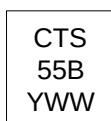
Packaging and Marking

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	5.5
REEL QUANTITY	ea.	500

Customer Feed Direction



Product Marking



Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
1.26"/32	0.157"/4	0.622"/15.8	0.175"/4.45	0.472"/12

Mouser Electronics

Authorized Distributor

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