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CER0532B

3.5 GHz BPF

Rev 1 - Origin Date: September 10, 2007 – Revision Date: December 3, 2007

Features

- Low Ripple
- High Rejection
- Low Loss

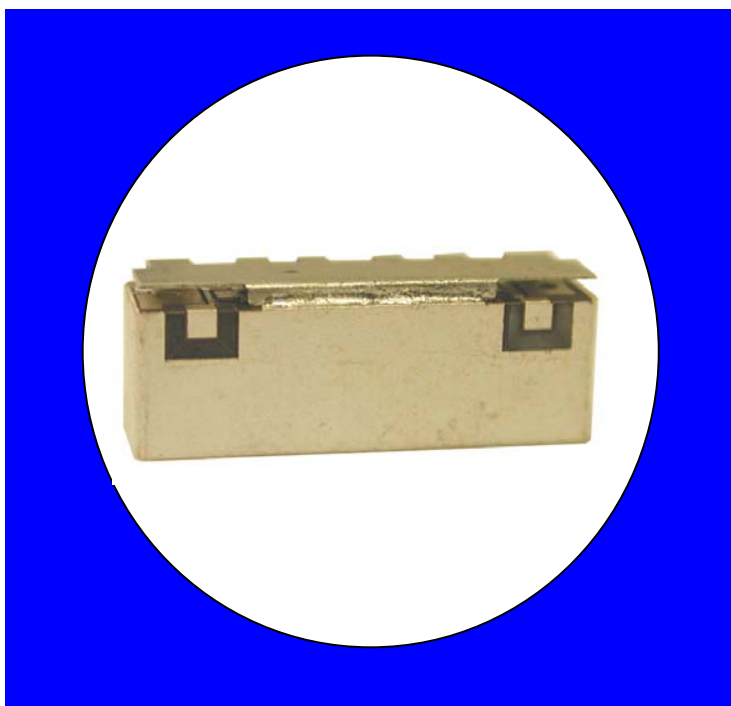
Description

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

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	3400-3600	-0.65	-0.85	-1.0
Passband Ripple	3400-3600	0.25	0.5	0.5
Passband Return Loss @ Port 1	3400-3600	-16.0	-12.0	-12.0
Passband Return Loss @ Port 2	3400-3600	-16.0	-12.0	-12.0
Attenuation	f ≤ 2664	-75.0	-65.0	-65.0
	2923 - 3132	-60.0	-39.0	-39.0
	3868 - 4068	-22.0	-18.0	-18.0
	6000	-20.0	-15.0	-15.0
Power into any port		3 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

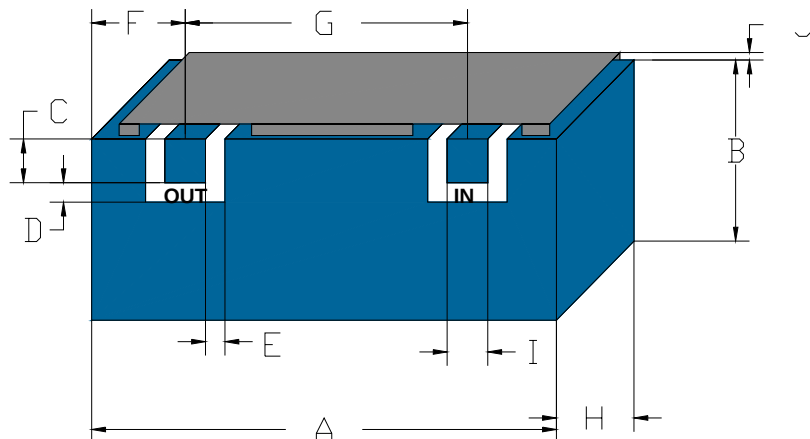
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

*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;JP 505182/96;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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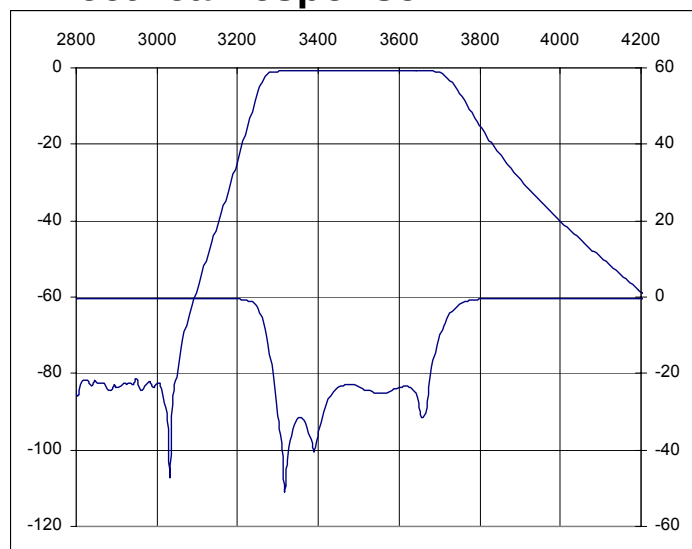
Mechanical Drawing

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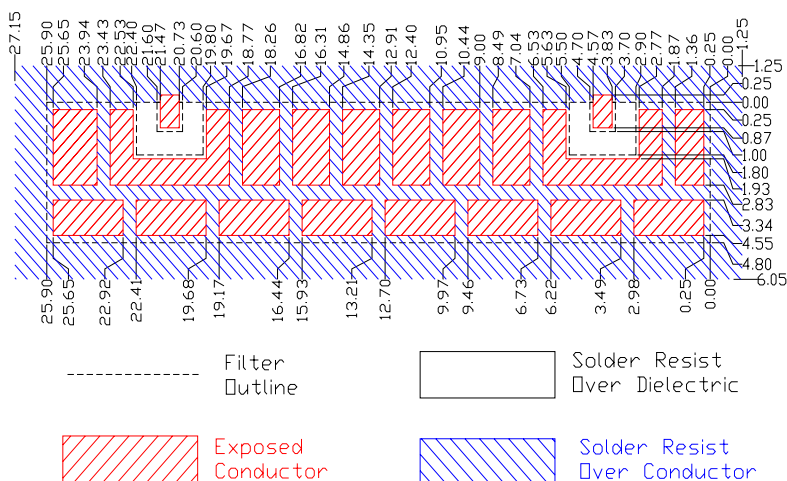


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	25.90	max
B	4.80	max
C	1.00	0.13
D	0.80	0.13
E	0.80	0.13
F	4.20	0.13
G	16.9	0.13
H	6.70	max
I	1.00	0.13
J	0.70	max

Electrical response

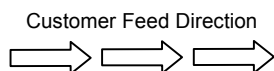


PCB Layout

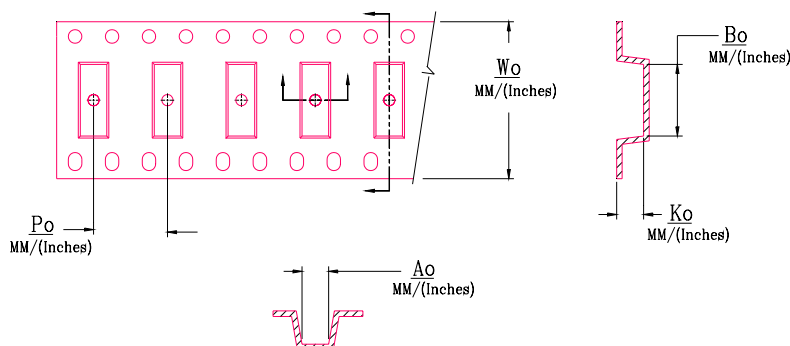
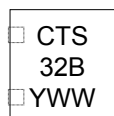


Packaging and Marking

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



Product Marking



Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
1.732"/44	0.236"/6.00	1.028"/26.10	0.283"/7.20	0.472"/12.00