

Features

- Less than 2 mm Board Height
- Low Insertion Loss
- Excellent rejection

Description

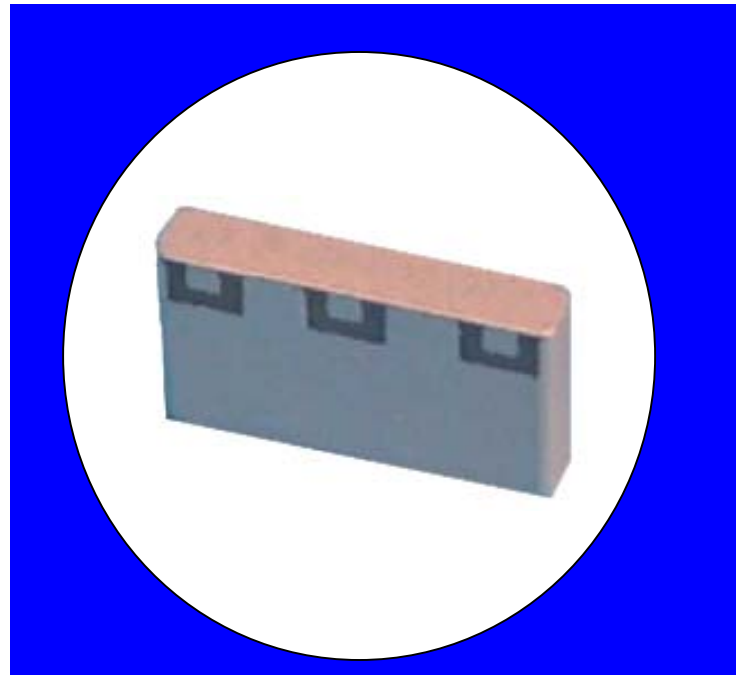
Surface mount, silver (Ag) coated ceramic duplexer. Developed for use in W-CDMA infrastructure and handset applications

Weight: 0.46 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	Spec. Over -40°C to +85°C
TX to Antenna Response				
Passband Insertion Loss	1920-1980	1.2 dB	1.4 dB max	1.6 dB max
Passband Return Loss @ TX	1920-1980	13.0 dB	10.5 dB min	10.0 dB min
Passband Return Loss @ ANT	1920-1980	13.0 dB	10.5 dB min	10.0 dB min
Passband Ripple	1920-1980	0.3 dB	0.5 dB max	0.6 dB max
Attenuation:	2110-2170	49.0 dB	46.0 dB min	45.0 dB min
	2300-2360	44.0 dB	40.0 dB min	40.0 dB min
	3840-3960	33.0 dB	25.0 dB min	25.0 dB min
	5760-5940	27.0 dB	20.0 dB min	20.0 dB min
Antenna to RX Response				
Passband Insertion Loss	2110-2170	1.6 dB	2.0 dB max	2.2 dB max
Passband Return Loss @ RX	2110-2170	12.0 dB	10.5 dB min	10.0 dB min
Passband Return Loss @ ANT	2110-2170	12.0 dB	10.5 dB min	10.0 dB min
Passband Ripple	2110-2170	0.4 dB	0.6 dB max	0.7 dB max
Attenuation:	1920-1980	54.0 dB	51.0 dB min	50.0 dB min
	2300-2360	31.0 dB	25.0 dB min	25.0 dB min
	2490-2550	45.0 dB	42.0 dB min	42.0 dB min
	3840-3960	30.0 dB	20.0 dB min	20.0 dB min
TX to RX Response				
Rejection @ TX band	1920-1980	54.0 dB	51.0 dB min	50.0 dB min
Rejection @ RX band	2110-2170	51.0 dB	48.0 dB min	47.0 dB min
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:

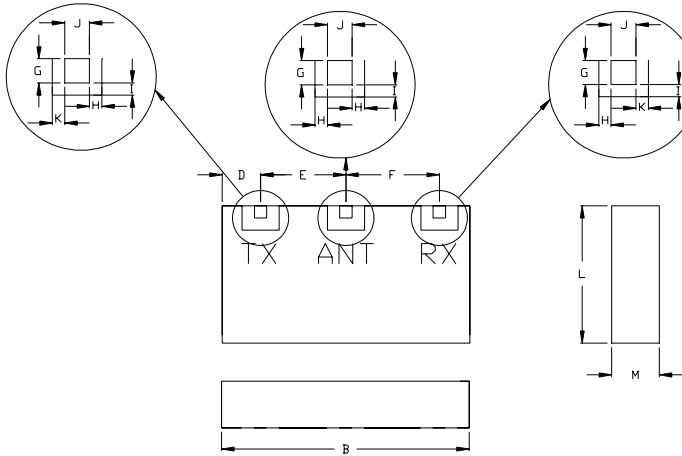
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

*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 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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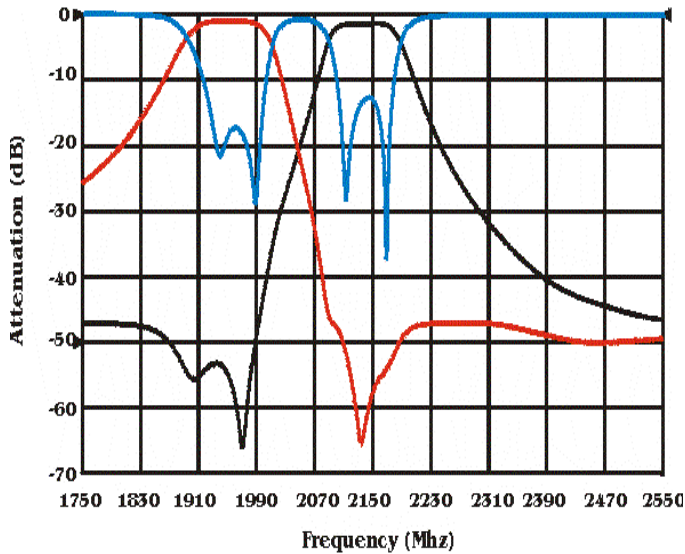
Mechanical Drawing

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

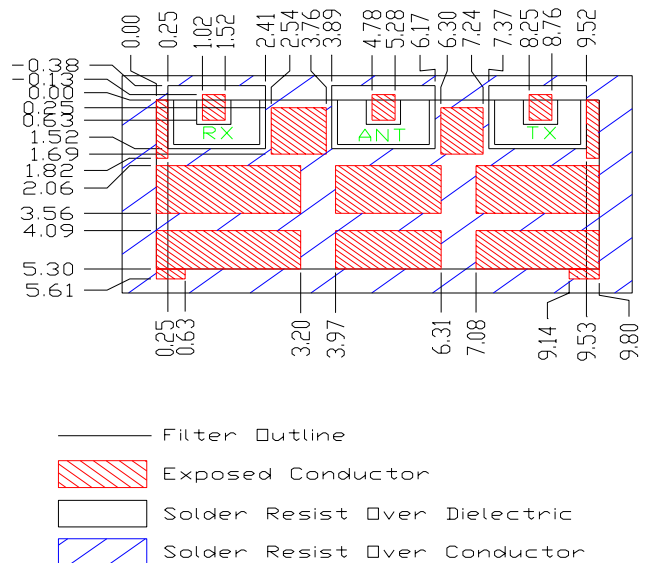


Dim	Nominal (mm)	Tolerance (mm) +/- or max
B	9.93	max
D	1.30	0.13
E	3.48	0.13
F	3.76	0.13
G	0.76	0.13
H	0.64	0.13
I	0.64	0.13
J	0.76	0.13
K	0.51	0.13
L	5.45	max
M	1.90	max

Electrical response



PCB Layout



Packaging and Marking

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	1.73
REEL QUANTITY	ea.	1000

