



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

- Low Loss
- High Rejection
- High Isolation

Description

Surface mount, silver (Ag) coated ceramic duplexer. Developed for use in PCS subscriber and infrastructure applications.

Weight: 3.1 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	Spec. over -40°C to +85°C
TX to Antenna Response			
Passband Insertion Loss	1850 – 1910	2.6 dB	3.1 dB max
Passband Return Loss @ TX	1850 – 1910	15.0 dB	10.0 dB min
Passband Return Loss @ ANT	1850 – 1910	14.0 dB	10.0 dB min
Passband Ripple	1850 – 1910	1.8 dB	2.6 dB max
Attenuation:	1930 – 1990	47.0 dB	41.5 dB min
Antenna to RX Response			
Passband Insertion Loss	1930 – 1990	3.0 dB	3.6 dB max
Passband Return Loss @ RX	1930 – 1990	13.5 dB	10.0 dB min
Passband Return Loss @ ANT	1930 – 1990	13.5 dB	10.0 dB min
Passband Ripple	1930 – 1990	1.9 dB	2.6 dB max
Attenuation:	1850 – 1910	52.0 dB	48.0 dB min
TX to RX Response			
Rejection @ TX band	1850 – 1910	53.0 dB	50.0 dB min
Rejection @ RX band	1930 – 1990	50.0 dB	44.5 dB min
Power rating			2 Watts max
ESD voltage			1KV 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:

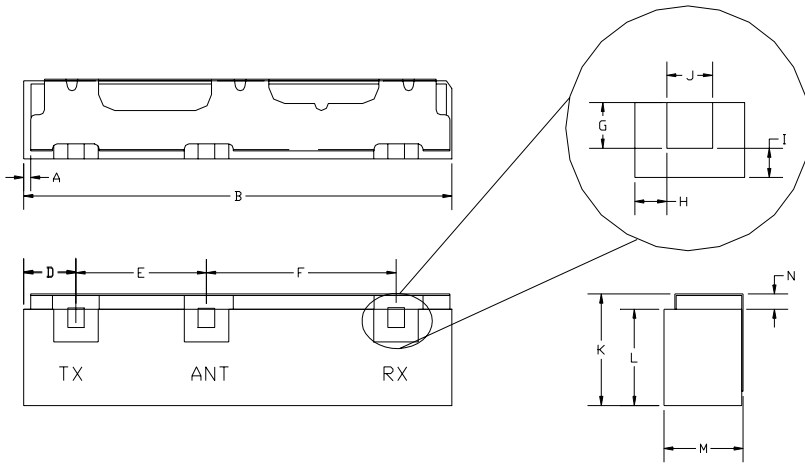
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

*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.

CTS Corporation 2006 reserves all copyrights in the layout, design and configuration of the patterns on this product.

Mechanical Drawing

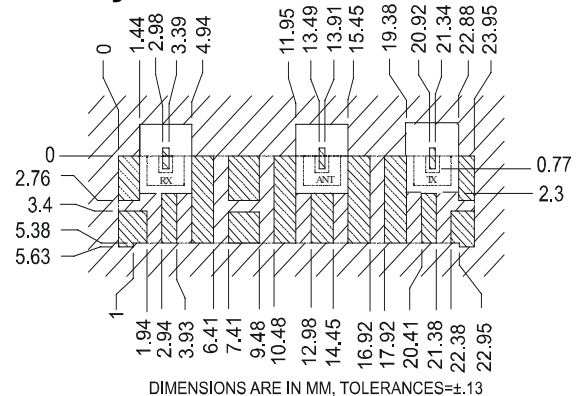
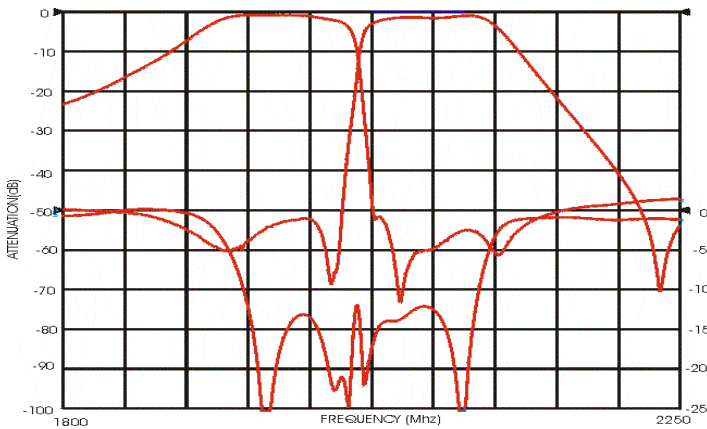
Rev 0 – Origin Date: July 11, 2005 – Revision Date: July 11, 2005



Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	0.25	0.25
B	23.93	max
D	2.72	0.25
E	7.44	0.13
F	10.52	0.13
G	1.02	0.13
H	0.79	0.13
I	0.79	0.13
J	0.89	0.13
K	6.55	max
L	5.64	max
M	4.60	max
N	0.84	0.13

Electrical response

PCB Layout



Packaging and Marking

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	2.3
REEL QUANTITY	ea.	500

