

Features

- High Tx Isolation
- Low loss
- High Rejection

Description

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

Weight: 2.63 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	Spec. @ 25°C	Spec. over -40°C to +85°C
TX to Antenna Response				
Passband Insertion Loss	1850 – 1909.4	3.0 dB	3.2 dB max	3.5 dB max
Passband Return Loss	1850 – 1909.4	15.0 dB	10.0 dB min	9.0 dB min
Passband Ripple	1850 – 1909.4	2.2 dB	2.6 dB max	3.0 dB max
Attenuation:	1930.6 – 1990	47.2 dB	45.0 dB min	44.0 dB min
	3700 – 3820	18.5 dB	10.0 dB min	10.0 dB min
Antenna to RX Response				
Passband Insertion Loss	1930.6 – 1990	3.4 dB	3.7 dB max	4.0 dB max
Passband Return Loss	1930.6 – 1990	14.0 dB	10.0 dB min	9.0 dB min
Passband Ripple	1930.6 – 1990	2.6 dB	3.0 dB max	3.3 dB max
Attenuation:	1850 – 1909.4	57.5 dB	55.0 dB min	53.0 dB min
	2050	13.0 dB	9.0 dB min	9.0 dB min
TX to RX Response				
Rejection @ TX band	1850 – 1909.4	58.1 dB	55.0 dB min	54.0 dB min
Rejection @ RX band	1930.6 – 1990	50.5 dB	46.0 dB min	45.0 dB min
Power into any port			2 Watt max	

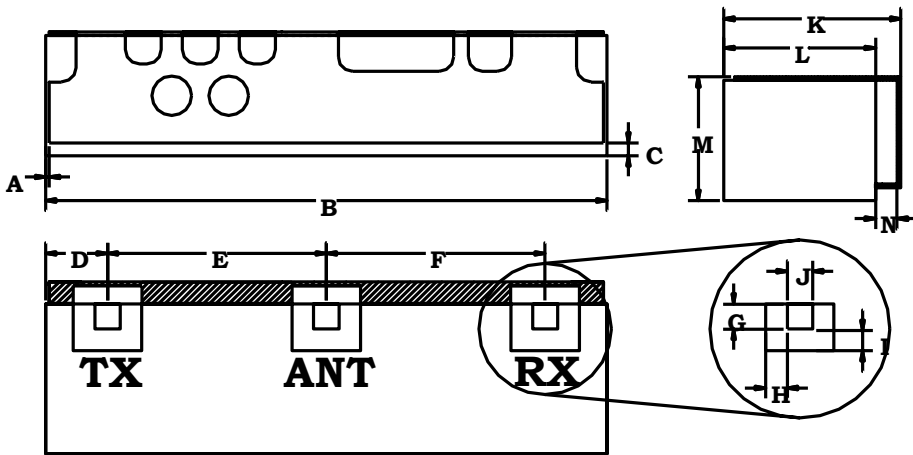
Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

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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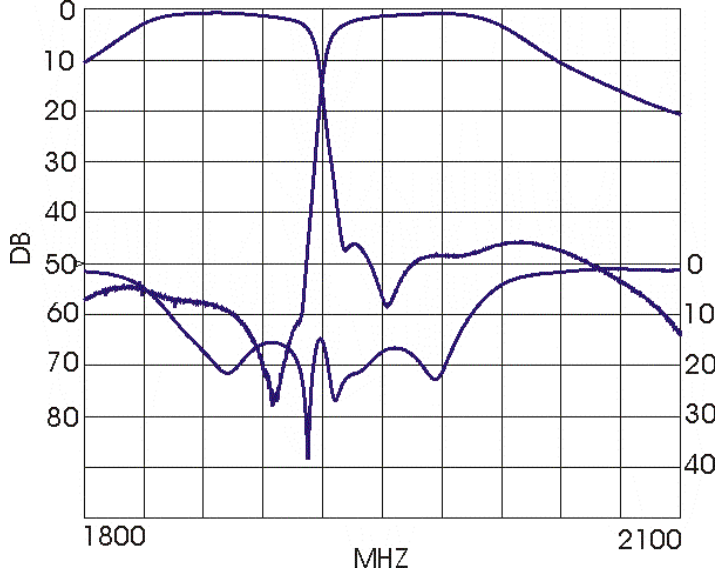
Mechanical Drawing



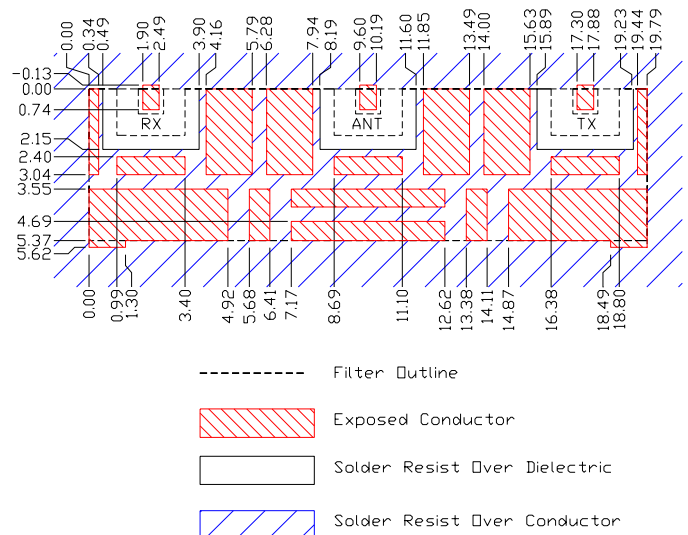
Dim	Nominal (mm)	Tolerance (mm) +/- or max
*A	0.13	0.25
B	19.92	max
*C	0.69	0.13
D	2.2	0.25
E	7.7	0.13
F	7.7	0.13
G	0.89	0.13
H	0.76	0.13
I	0.76	0.13
J	0.89	0.13
K	6.45	max
L	5.37	0.2
M	4.6	max
*N	0.76	0.13

*Indicates Reference Only

Electrical response



PCB Layout



Packaging and Marking

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	2.7
REEL QUANTITY	ea.	500

