

Features

- Low Loss
- Low Ripple
- High Rejection

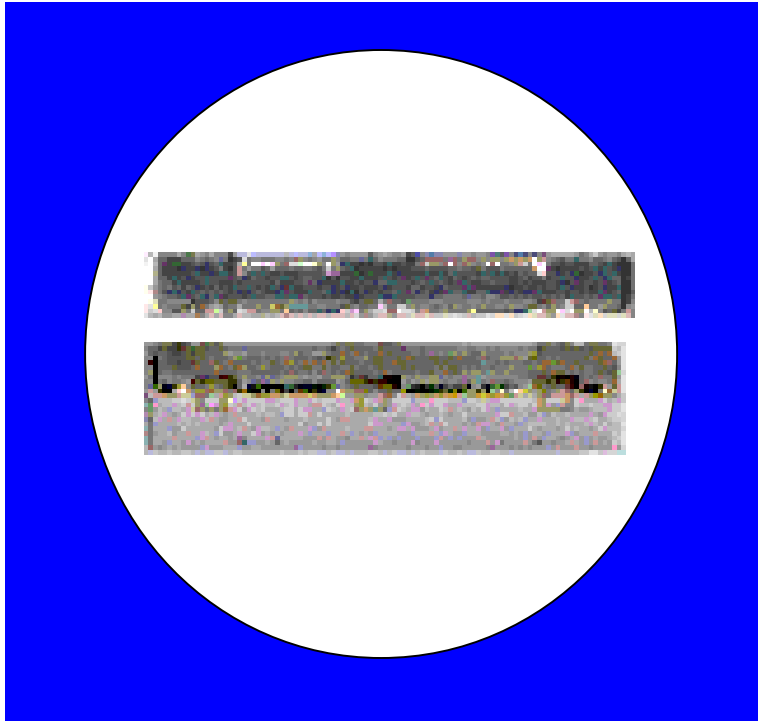
Description

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

Weight: 3.3 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 @ 25°C	Spec. @ 25°C	Spec. over -40°C to +85°C
Antenna to TX Response				
Passband Insertion Loss	1850 - 1910	2.9 dB	3.4 dB max	3.5 dB max
Passband Return Loss @ TX	1850 - 1910	13.0 dB	11 dB min	10 dB min
Passband Return Loss @ ANT	1850 - 1910	13.0 dB	11 dB min	10 dB min
Passband Ripple	1850 - 1910	2.1 dB	2.5 dB min	2.5 dB min
Attenuation:	1930 - 1990	43.0 dB	40 dB min	38 dB min
Antenna to RX Response				
Passband Insertion Loss	1930 - 1990	3.2 dB	3.4 dB max	3.8 dB max
Passband Return Loss @ RX	1930 - 1990	13.0 dB	11 dB min	10 dB min
Passband Return Loss @ ANT	1930 - 1990	13.0 dB	11 dB min	10 dB min
Passband Ripple	1930 - 1990	2.4 dB	3 dB min	3 dB min
Attenuation:	1850 - 1910	49.0 dB	47 dB min	45 dB min
TX to RX Response				
Attenuation:	1850 - 1910	53.5 dB	51 dB min	49 dB min
	1930 - 1990	44.0 dB	42 dB min	40 dB min
Power into any port			2 Watt max	

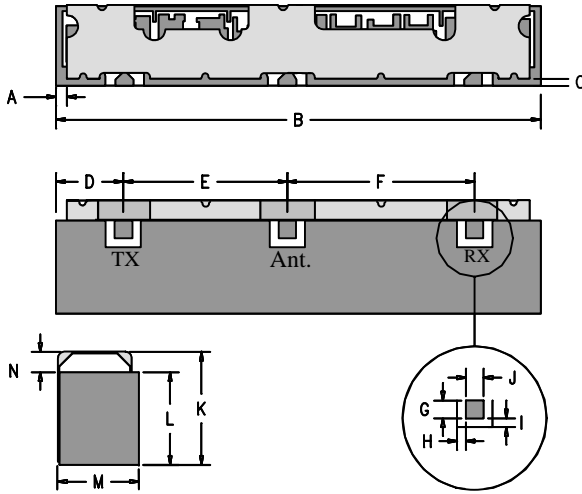
Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

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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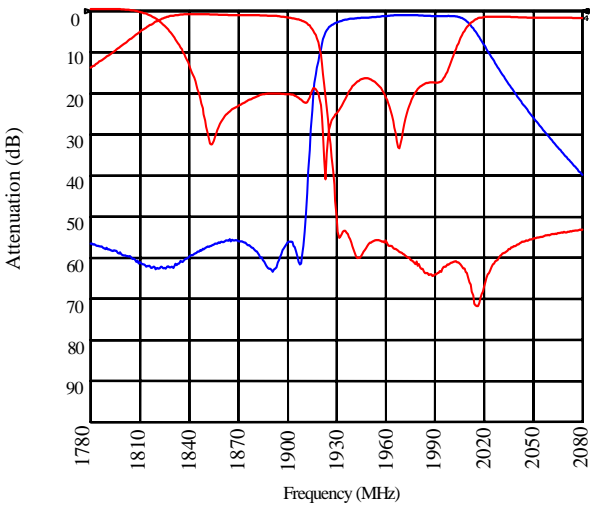
Mechanical Drawing



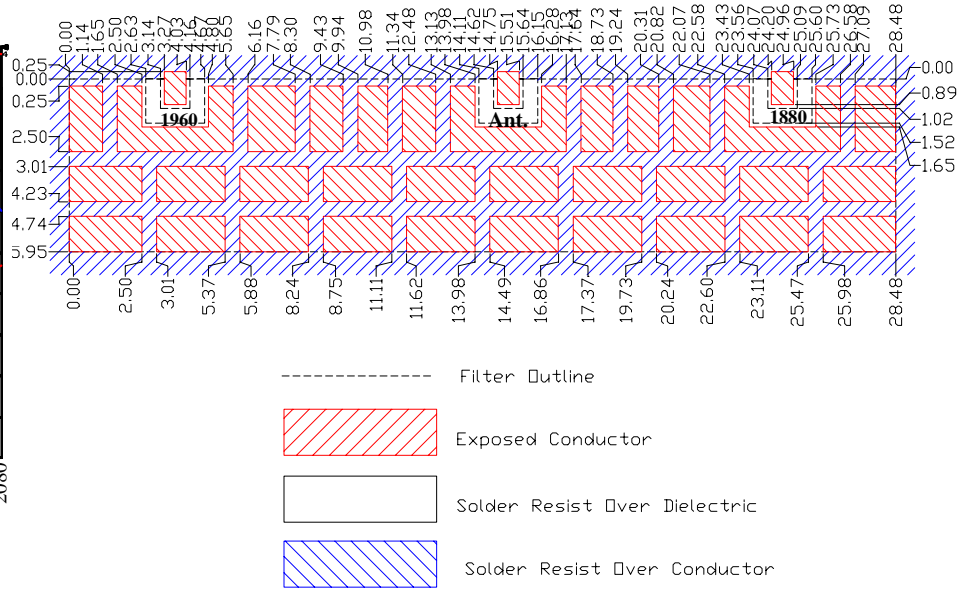
Dim	Nominal (mm)	Tolerance (mm) +/-
A	0.64	0.25
B	28.48	Max
*C	0.33	Min
D	4	0.3
E	9.45	0.13
F	10.8	0.13
G	1.02	0.13
H	0.51	0.13
I	0.51	0.13
J	1.02	0.13
K	6.85	Max
L	5.95	Max
M	4.9	Max
N	1.07	0.13

*Indicates Reference Only

Electrical response



PCB Layout



Packaging and Marking

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	2.5
REEL QUANTITY	ea.	500

Customer Feed Direction

