

### Features

- High Rejection
- Low Ripple
- Low Loss

### Description

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

Weight: 3.7 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
<b>Low Band Response</b>				
Passband Insertion Loss	1880 - 1920	-2.4	-3.2	-3.5
Passband Ripple	1880 - 1920	0.9	1.0	1.2
Passband Return Loss @ Ant	1880 - 1920	-16.0	-14.0	-14.0
Passband Return Loss @ Low Band	1880 - 1920	-16.0	-14.0	-14.0
Attenuation	0.1 - 1200	-48.0	-38.0	-38.0
	1200 - 1840	-32.0	-30.0	-30.0
	1840 - 1860	-18.0	-16.0	-16.0
	1940 - 1960	-27.0	-16.0	-16.0
	1960 - 2000	-34.0	-25.0	-25.0
	2000 - 2010	-47.0	-35.0	-35.0
	2010 - 2025	-49.0	-45.0	-45.0
	2025 - 2700	-37.0	-25.0	-25.0
<b>High Band Response</b>				
Passband Insertion Loss	2010 - 2025	-2.4	-3.2	-3.5
Passband Ripple	2010 - 2025	0.4	1.0	1.2
Passband Return Loss @ Ant	2010 - 2025	-16.0	-14.0	-14.0
Passband Return Loss @ High Band	2010 - 2025	-16.0	-14.0	-14.0
Attenuation:	0.1 - 1880	-48.0	-43.0	-43.0
	1880 - 1920	-58.0	-50.0	-50.0
	1920 - 1930	-54.0	-43.0	-43.0
	1930 - 1970	-34.0	-30.0	-30.0
	1970 - 1990	-19.0	-16.0	-16.0
	2045 - 2065	-19.0	-16.0	-16.0
	2065 - 2170	-37.0	-33.0	-33.0
	2170 - 2700	-42.0	-38.0	-38.0
<b>Isolation</b>				
Rejection @ Low band	1880 - 1920	-51.0	-50.0	-50.0
Rejection @ High band	2010 - 2025	-46.0	-45.0	-45.0
Power into any port			2 Watts 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:

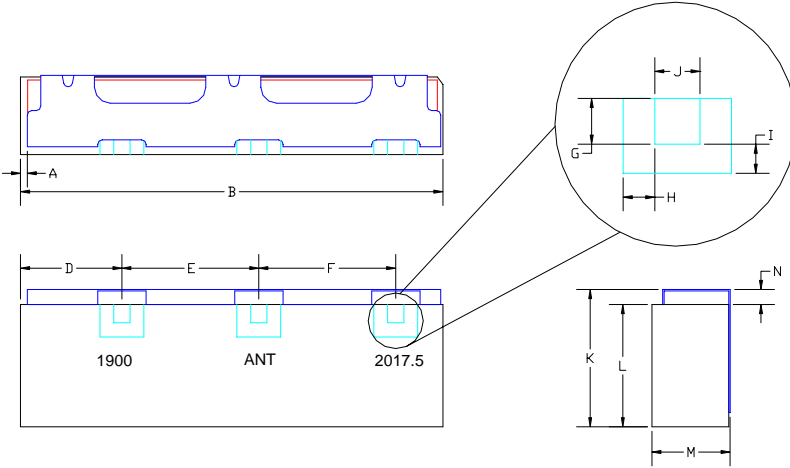
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

\*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

Revision B – Origin Date: March 5, 2010 – Revision Date: July 11, 2011

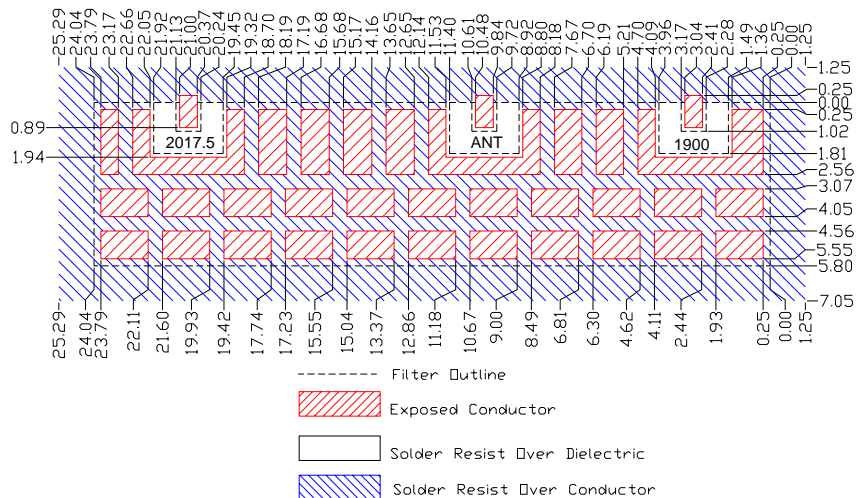
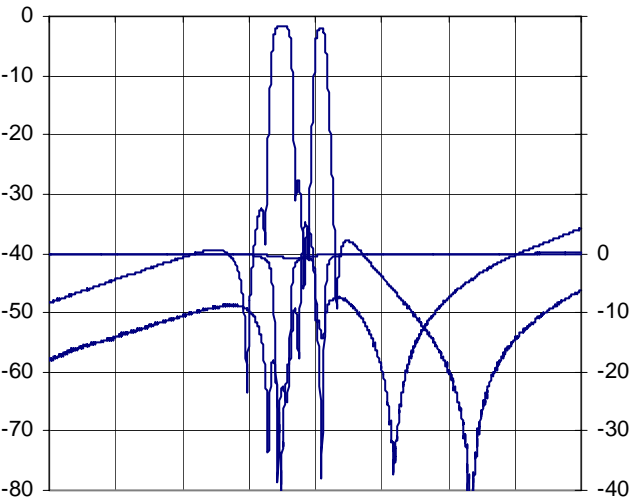


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	0.25	0.25
B	24.04	max
C		
D	2.72	0.25
E	7.44	0.13
F	10.52	0.13
G	1.02	0.13
H	0.79	0.13
I	0.79	0.13
J	0.89	0.13
K	6.79	max
L	5.80	max
M	4.60	max
N	0.84	0.13

### Electrical response

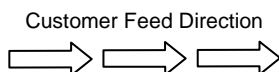
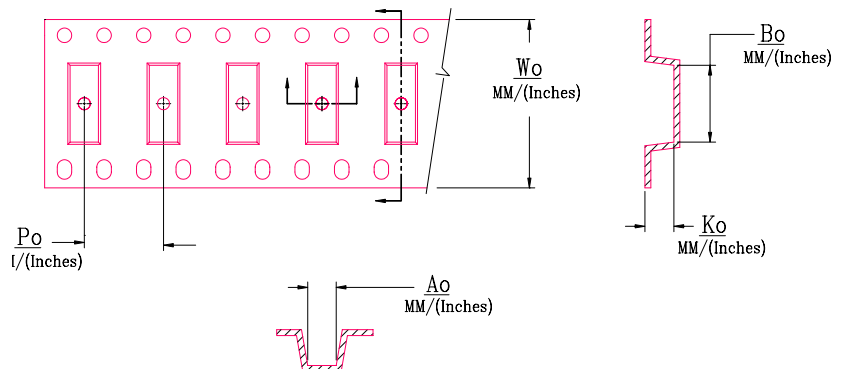
### PCB Layout

1200 1400 1600 1800 2000 2200 2400 2600 2800



### Packaging and Marking

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



Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
1.732" / 44.0	0.271" / 6.88	0.974" / 24.74	0.195" / 4.95	0.472" / 12.0