

### Features

- Extended pass band
- Low loss
- High rejection

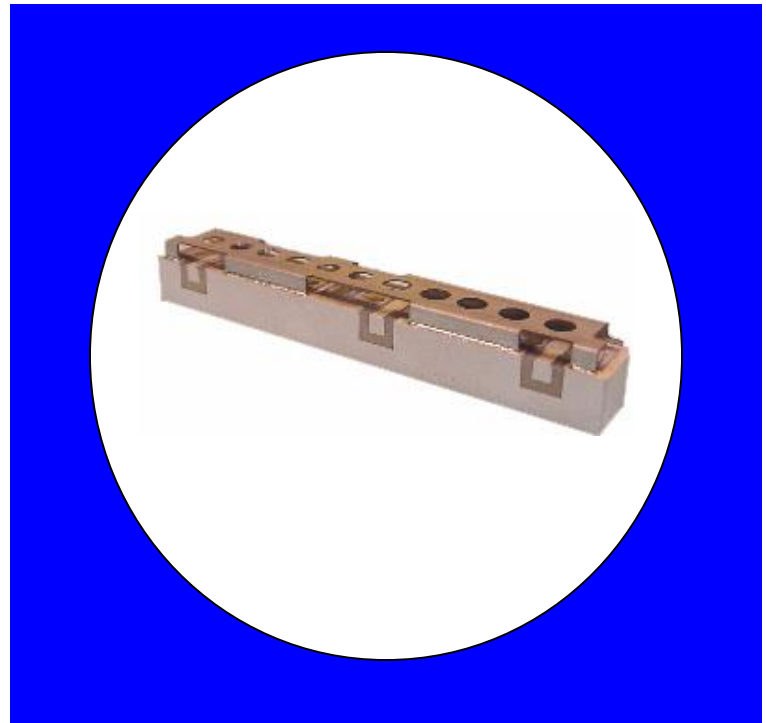
### Description

Surface mount, silver (Ag) coated ceramic duplexer. Developed for use in GSM Infrastructure applications.

Weight: Approximately 8.0 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	Specification @ 25°C	Spec over -40°C to +90°C
<b>Low Band Response (S21)</b>				
Passband Iloss	1850 - 1910	-2.40	-2.70	-3.00
Passband Ripple	1850 - 1910	1.70	1.85	2.00
Passband Return Loss @ Port 2	1850 - 1910	-14.00	-12.00	-12.00
Passband Return Loss @ Ant	1850 - 1910	-14.00	-12.00	-12.00
Attenuation	1930 - 1990	-42.50	-40.00	-40.00
<b>High Band Response (S13)</b>				
Passband Iloss	1930 - 1990	-2.50	-2.70	-3.00
Passband Ripple	1930 - 1990	1.70	1.85	2.00
Passband Return Loss @ Port 3	1930 - 1990	-12.00	-10.00	-10.00
Passband Return Loss @ Ant	1930 - 1990	-12.00	-10.00	-10.00
Attenuation	1850 - 1910	-42.00	-40.00	-40.00
<b>Isolation (S23)</b>				
Rejection @ Low Band	1850 - 1910	-43.00	-40.00	-40.00
Rejection @ High Band	1930 - 1990	-43.00	-40.00	-40.00
Power into any port		6 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:

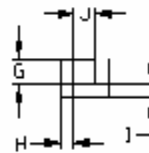
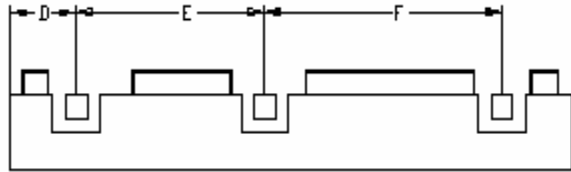
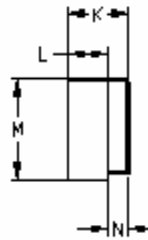
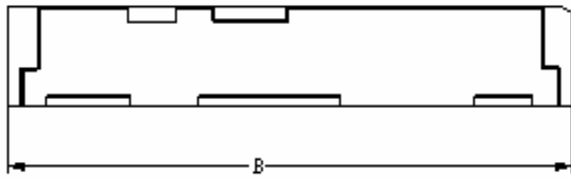
Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

\*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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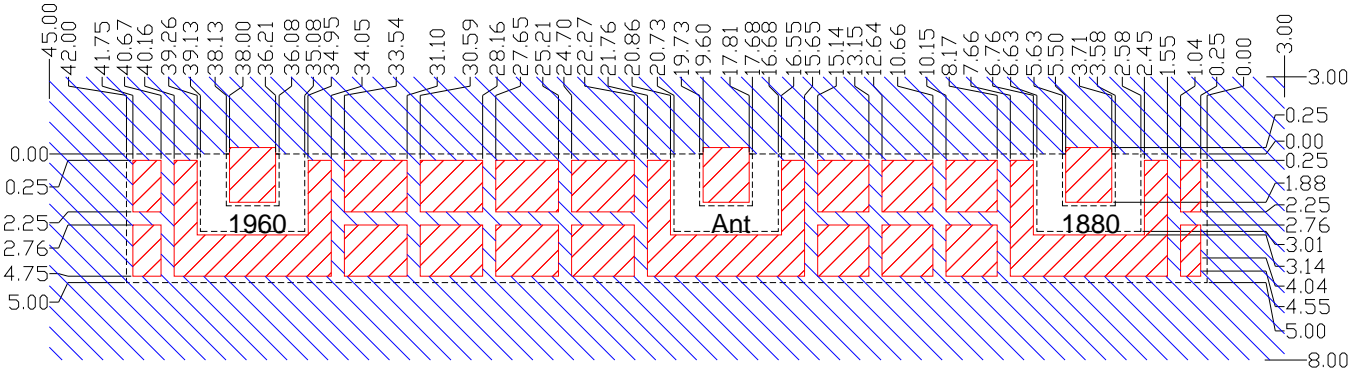
### Mechanical Drawing

Revision B – Origin Date: October 19, 2007 – Revision Date: July 28, 2011



Dim	Nominal (mm)	Tolerance (mm) +/- or max
A		
B	42.0	max
C		
D	4.6	0.25
E	14.1	0.13
F	18.4	0.13
G	2.01	0.13
H	1.00	0.13
I	1.00	0.13
J	2.05	0.13
K	6.65	max
L	5.0	Max
M	8.0	max
N	1.65	0.13

### PCB Layout



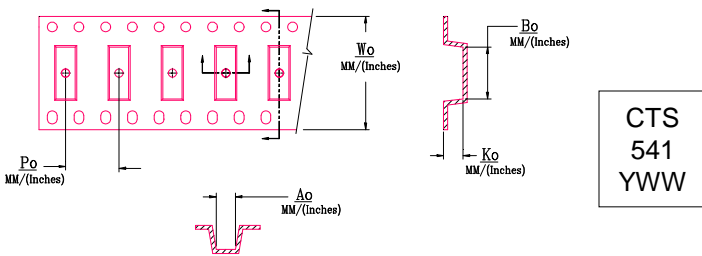
----- Filter Outline

Solder Resist Over Dielectric

Exposed Conductor

Solder Resist Over Conductor

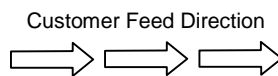
### Packaging and Marking



CTS  
541  
YWW

Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
2.205"/56.0	0.274"/6.95	1.665"/42.3	0.315"/8.0	0.472"/12.0

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	1
REEL QUANTITY	ea.	250



### Electrical response

