

### Features

- Low Loss
- Excellent Rejection
- Excellent Power Handling

### Description

Surface mount, silver (Ag) coated ceramic diplexer. Developed for use in both subscriber and infrastructure Applications.

Weight: 6.9 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 +80°C
<b>Low Band Response (S31)</b>				
Passband Iloss	1710 - 1880	-1.60	-1.80	-2.00
Passband Ripple	1710 - 1880	1.00	1.30	1.50
Passband Return Loss @ Port 1	1710 - 1880	-12.50	-10.00	-10.00
Passband Return Loss @ Port 2	1710 - 1880	-12.50	-10.00	-10.00
Attenuation	1920 - 2170	-43.00	-40.00	-40.00
<b>High Band Response (S12)</b>				
Passband Iloss	1920 - 2170	-1.65	-2.00	-2.20
Passband Ripple	1920 - 2170	1.00	1.30	1.50
Passband Return Loss @ Port 1	1920 - 2170	-12.50	-10.00	-10.00
Passband Return Loss @ Port 3	1920 - 2170	-12.50	-10.00	-10.00
Attenuation	1710 - 1880	-43.00	-40.00	-40.00
<b>Isolation (S23)</b>				
Rejection @ Low Band	1710 - 1880	-46.50	-44.00	-44.00
Rejection @ High Band	1920 - 2170	-46.50	-44.00	-44.00
Power into any port		2 Watt max		

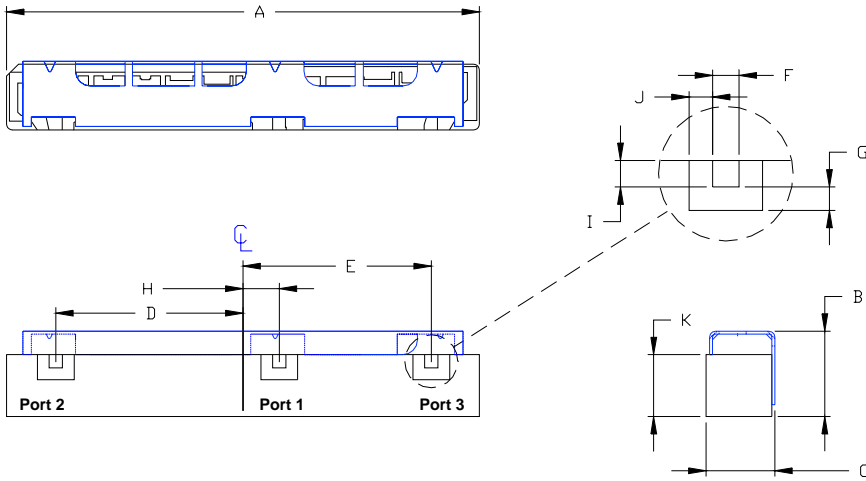
Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

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.

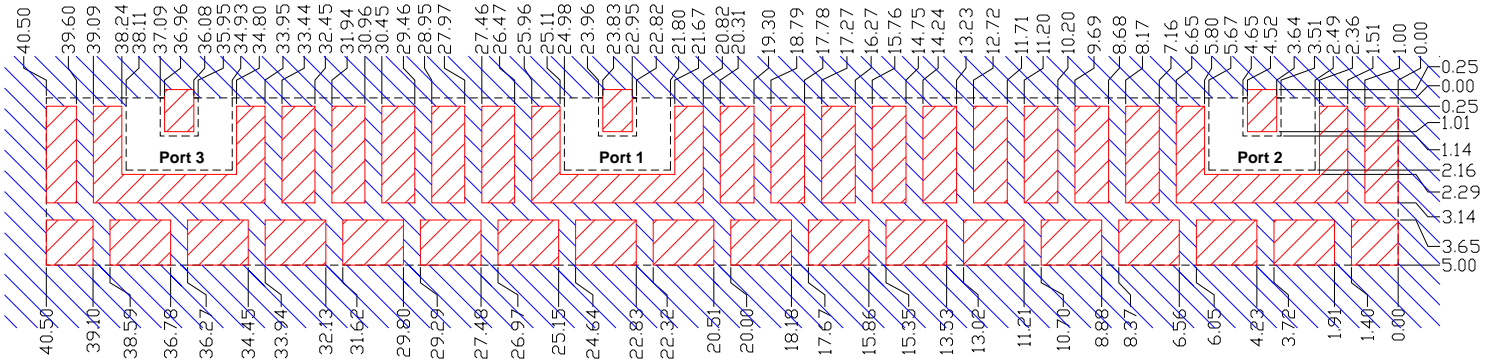
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### Mechanical Drawing



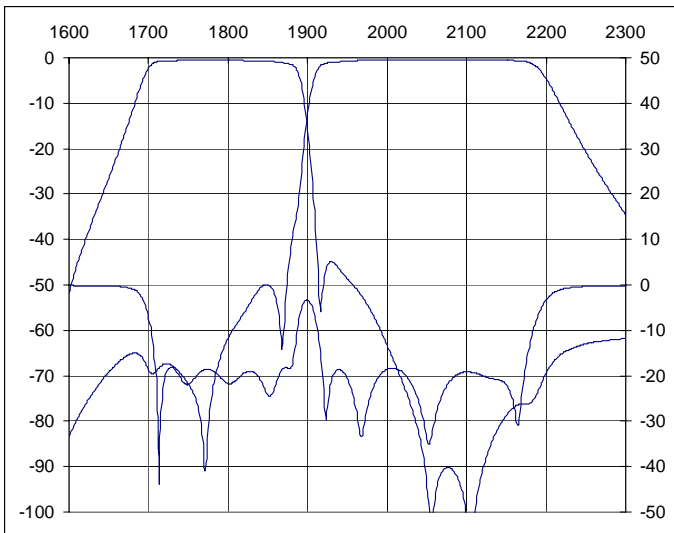
Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	40.5	Max.
B	7.8	Max.
C	6.3	Max.
D	16.17	0.13
E	16.27	0.13
F	1.14	0.13
G	1.02	0.13
H	3.14	0.13
I	1.14	0.13
J	1.02	0.13
K	5.00	Max.

### Packaging and Marking



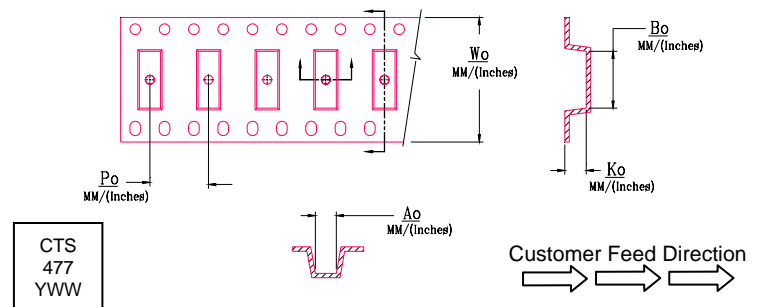
- Filter Outline
- Exposed Conductor
- Solder Resist Over Conductor
- Solder Resist Over Dielectric

### Electrical response



### PCB Layout

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	2.0
REEL QUANTITY	ea.	250



Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
2.205"/56	0.319"/8.1	0.1.606"/40.8	0.260"/6.6	0.630"/16.00