

### Features

- High Power
- Low Insertion Loss
- High Attenuation

### Description

Surface mount, silver (Ag) coated ceramic duplexer for use in DCS applications.

Weight: 83 grams typical

Material: Filter is composed of a ceramic block plated with Ag and a Bracket made of nickel silver plated steel.

Filter complies with RoHS standards.



### Electrical Specifications

Parameter	Frequency MHz	Typical @ 25°C	Spec over -40°C to +85°C
<b>Low Band Response</b>			
Passband Iloss	1710 - 1785	-1.75	-2.30
Passband Ripple	1710 - 1785	1.00	1.20
Passband Return Loss @ Ant	1710 - 1785	-13.5	-12.0
Passband Return Loss @ Low Band	1710 - 1785	-13.5	-12.0
Attenuation	1805 - 1785	-44.0	-40.0
<b>High Band Response</b>			
Passband Iloss	1805 - 1880	-1.70	-2.30
Passband Ripple	1805 - 1880	1.00	1.20
Passband Return Loss @ Ant	1805 - 1880	-13.5	-12.0
Passband Return Loss @ High Band	1805 - 1880	-13.5	-12.0
Attenuation	1710 - 1785	-45.0	-41.0
<b>Isolation</b>			
Rejection @ Low Band	1710 - 1785	-45.00	-42.0
Rejection @ High Band	1805 - 1880	-44.00	-41.0
Average Power Antenna to High Band port		20 Watt	
Peak Power Antenna to High Band Port		200 Watt	

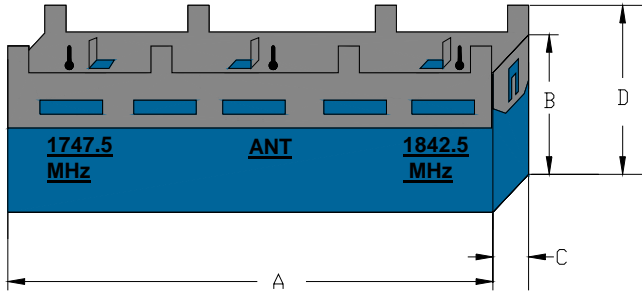
Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Power test will be completed with 50 watts average power in 5 MHz steps across the band. 12 steps total with a 100 millisecond pulse at each frequency point and a 200 watt peak, 1% duty factor with a 9 microsecond pulse. Such deviations shall not exceed the following limits:

Specification Allowance	
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stop bands	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;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.

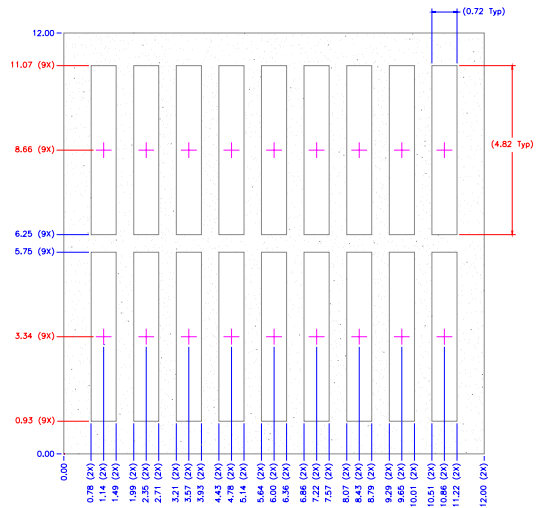
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### Mechanical Drawing

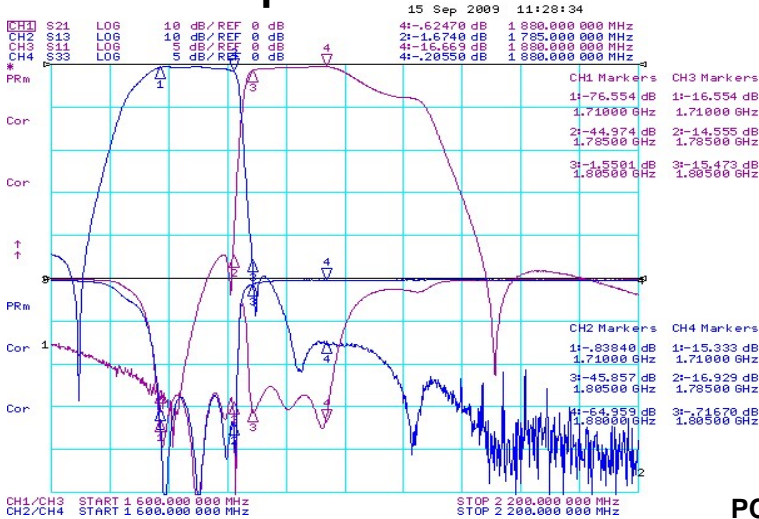


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	133.1	0.5
B	8.38	0.25
C	19.9	0.25
D	13.1	0.5

### Packaging



### Electrical response



### PCB Layout

For additional detail and the latest drawing please contact CTS

- Filter Outline
- Exposed Conductor
- Solder Resist Over Dielectric
- Solder Resist Over Conductor
- Plated Thru Hole

