

## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[CTS Electronic Components](#)

[CER0215A](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



# CER0215A

1900 MHz PCS Duplexer

Rev 1 – Origin Date: July 11, 2005 – Revision Date: November 27, 2006

## Features

- Low Loss
- Low Ripple
- High Crossover Rejection

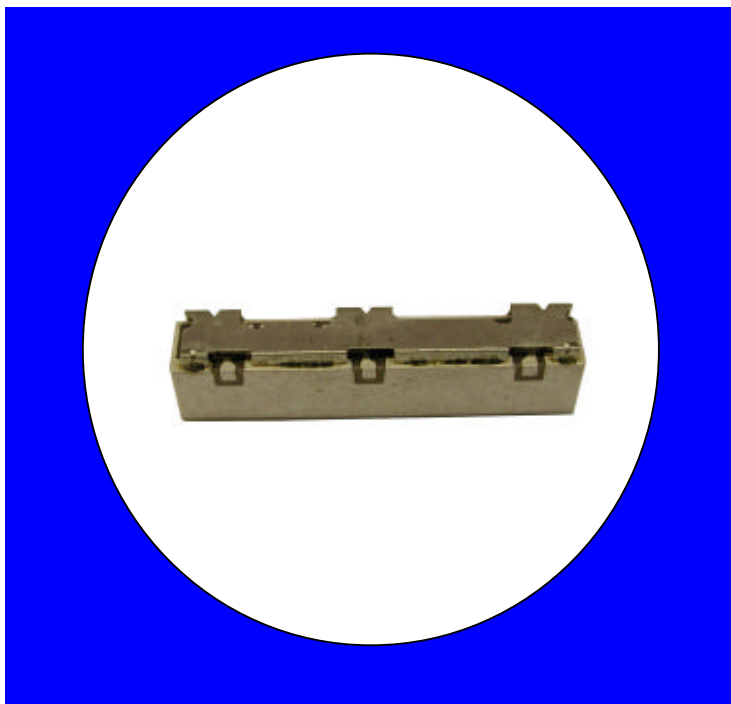
## Description

Surface mount, silver (Ag) coated ceramic Duplexer. Developed for use in 1900 MHz infrastructure applications.

Weight: 3.3 grams typical

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

Filter complies with RoHS standards.



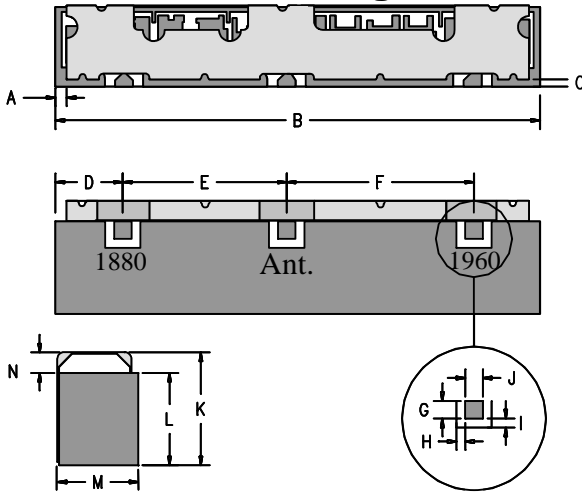
## Electrical Specifications

Parameter	Frequency (MHz)	Typical @ +25°C	Spec. @ +25°C	Spec. over -40°C to +85°C
<b>Antenna to TX Response</b>				
Passband Insertion Loss	1850 - 1910	2.6 dB	3.3 dB max	3.5 dB max
Passband Return Loss @ TX	1850 - 1910	13.0 dB	10 dB min	10 dB min
Passband Return Loss @ ANT	1850 - 1910	13.0 dB	10 dB min	10 dB min
Passband Ripple	1850 - 1910	1.3 dB	1.7 dB min	1.8 dB min
Attenuation:	1930 - 1990	34.0 dB	30 dB min	30 dB min
<b>Antenna to RX Response</b>				
Passband Insertion Loss	1930 - 1990	2.8 dB	3.4 dB max	3.6 dB max
Passband Return Loss @ RX	1930 - 1990	13.0 dB	10 dB min	10 dB min
Passband Return Loss @ ANT	1930 - 1990	13.0 dB	10 dB min	10 dB min
Passband Ripple	1930 - 1990	0.7 dB	1.2 dB min	1.3 dB min
Attenuation:	1850 - 1910	32.0 dB	30 dB min	30 dB min
<b>TX to RX Response</b>				
Attenuation:	1920	14.3 dB	12.0 dB min	12.0 dB min
	1850 - 1910	33.0 dB	30.0 dB min	30.0 dB min
	1930 - 1990	38.0 dB	35.0 dB min	35.0 dB min
Power into any port			3 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

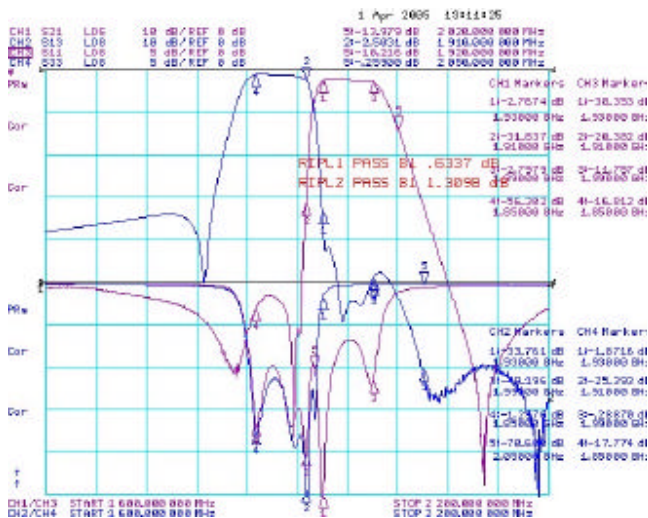
## Mechanical Drawing



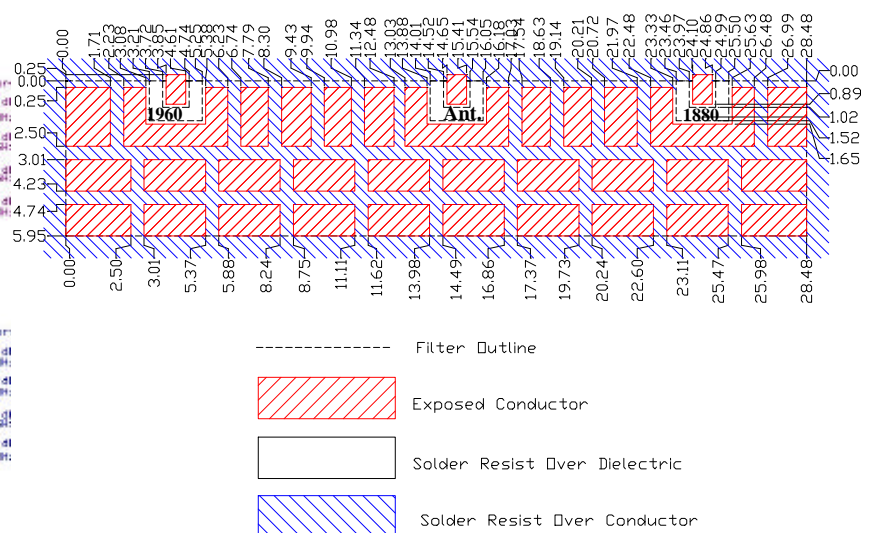
Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	0.64	0.25
B	28.48	max
*C	0.33	min
D	4.00	0.3
E	9.45	0.13
F	10.80	0.13
G	1.02	0.13
H	0.51	0.13
I	0.51	0.13
J	1.02	0.13
K	6.85	max
L	5.95	max
M	4.90	max
N	1.07	0.13

\*Indicates Reference Only

## Electrical response

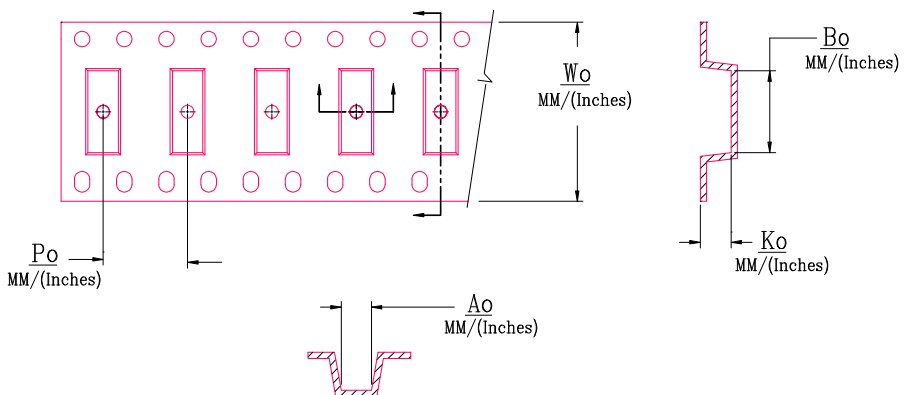


## PCB Layout



## Packaging and Marking

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



MODEL NO.	$W_o$	$A_o$	$B_o$	$K_o$	$P_o$
CER0215	44.0/(1.732)	7.29/(0.287)	28.70/(1.130)	5.18/(0.204)	12.0/(0.472)