

Features

- Low Loss
- Low Ripple
- High Crossover Rejection

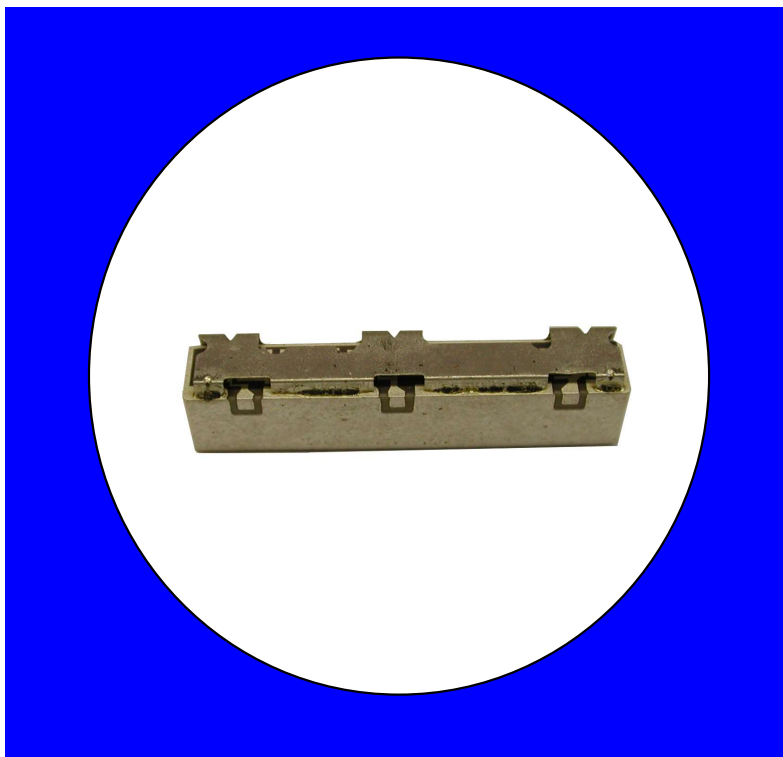
Description

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.



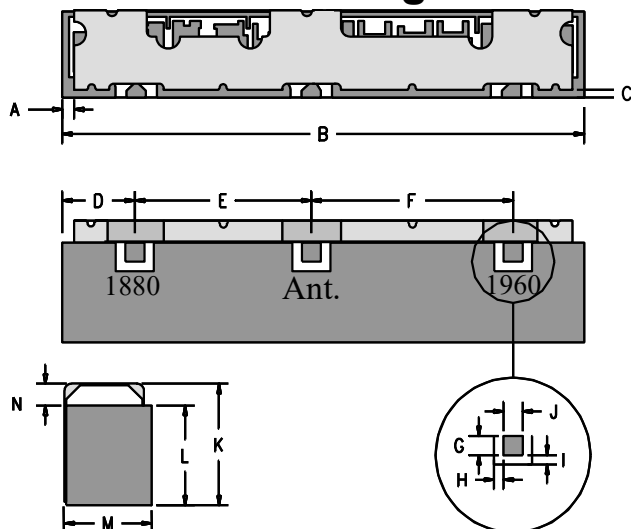
Electrical Specifications

Parameter	Frequency MHz	Typical @ 25°C	Specification @ 25°C	Spec over -40°C to +85°C
Low Band Response (S13)				
Passband lloss	1850 - 1910	-3.3	-3.70	-4.00
Passband Ripple	1850 - 1910	2.1	2.40	2.50
Passband Return Loss @ TX	1850 - 1910	-12.0	-10.00	-10.00
Passband Return Loss @ Ant	1850 - 1910	-12.0	-10.00	-10.00
Attenuation	1930 - 1990	-32.0	-30.00	-30.00
High Band Response (S21)				
Passband lloss	1930 - 1990	-3.2	-3.70	-4.00
Passband Ripple	1930 - 1990	1.9	2.40	2.50
Passband Return Loss @ RX	1930 - 1990	-12.0	-10.00	-10.00
Passband Return Loss @ Ant	1930 - 1990	-12.0	-10.00	-10.00
Attenuation	1850 - 1910	-34.0	-30.00	-30.00
Isolation (S23)				
Rejection @ Crossover	1920	-40.0	-35.00	-35.00
Rejection @ Low Band	1850 - 1910	-41.0	-38.00	-38.00
Rejection @ High Band	1930 - 1990	-41.0	-38.00	-38.00
Power into any port		5 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

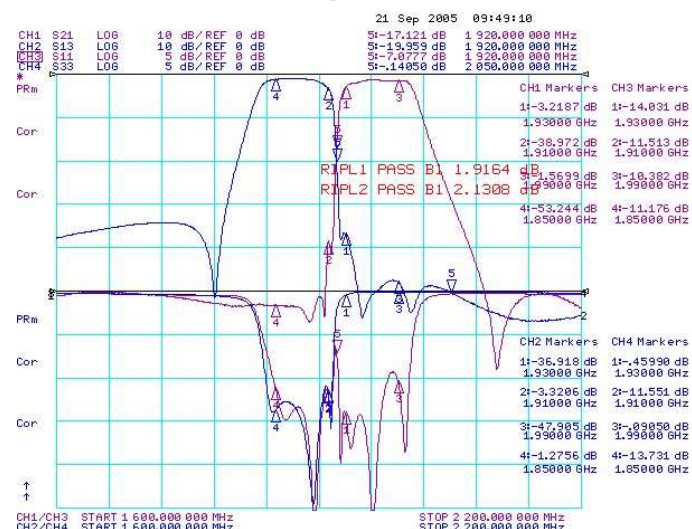
Mechanical Drawing



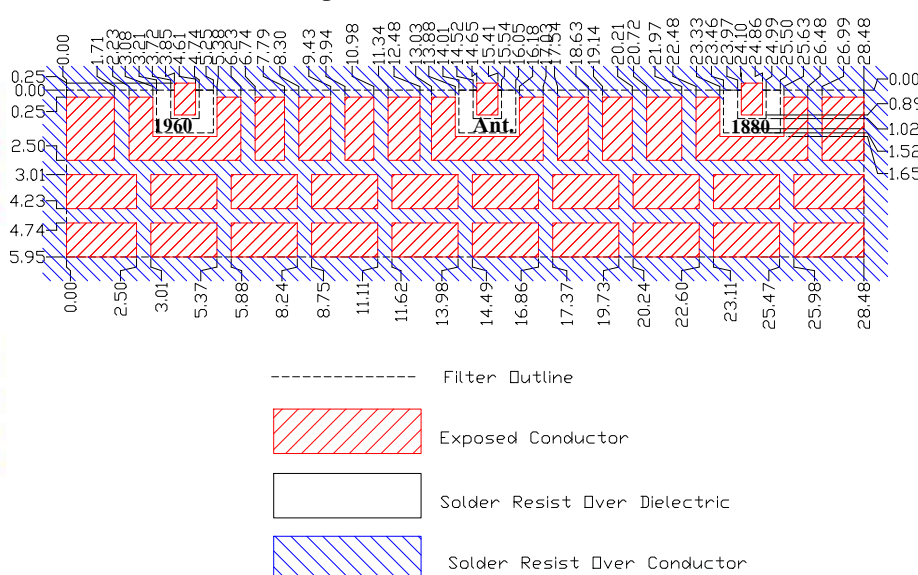
Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	0.64	0.25
B	28.48	max
*C	0.33	min
D	4.00	0.3
E	9.45	0.13
F	10.80	0.13
G	1.02	0.13
H	0.51	0.13
I	0.51	0.13
J	1.02	0.13
K	6.85	max
L	5.95	max
M	4.90	max
N	1.07	0.13

*Indicates Reference Only

Electrical response

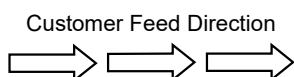


PCB Layout

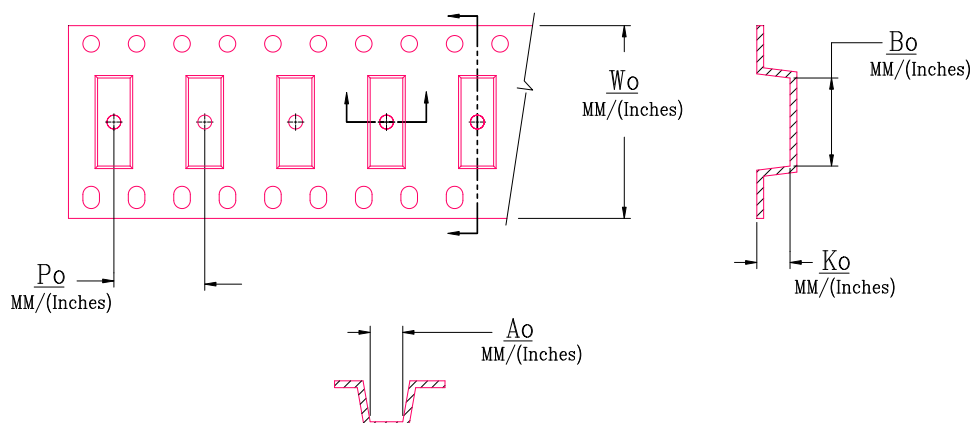


Packaging and Marking

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



Product Marking



MODEL NO.	W ₀	A ₀	B ₀	K ₀	P ₀
CER0215	44.0/(1.732)	7.29/(0.287)	28.70/(1.130)	5.18/(0.204)	12.0/(0.472)