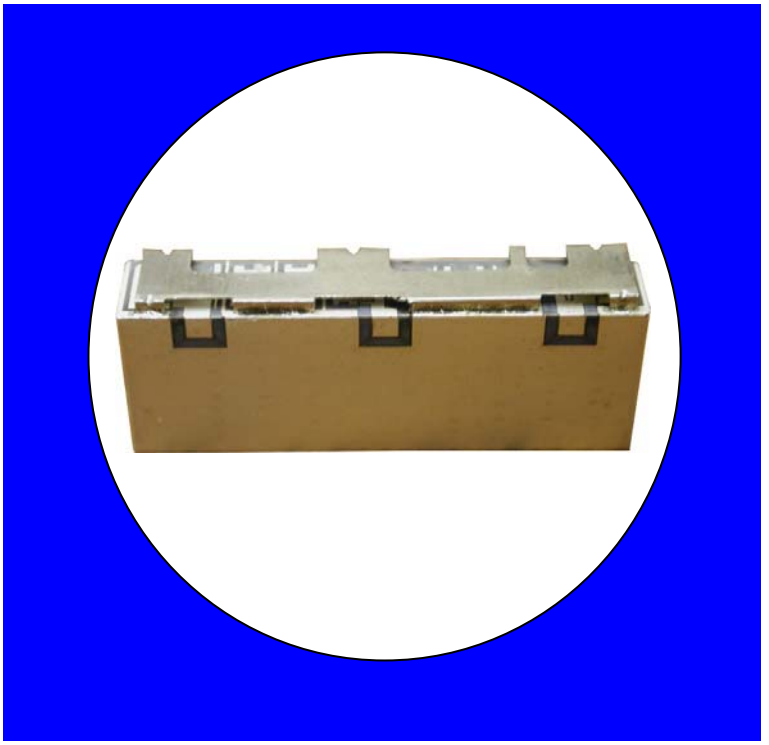
CER0783A

800 MHZ Duplexer

Revision B – Origin Date: February 3, 2010 – Revision Date: July 11, 2011

Features

- Low Insertion Loss
- Low Ripple
- Excellent Rejection and Isolation



Description

Surface mount, silver (Ag) coated ceramic duplexer. Developed for use in 800 MHz Infrastructure Applications.

Weight: 12.5 grams typical

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

Filter complies with RoHS standards.

Electrical Specifications

Parameter	Frequency MHz	Typical @ 25ºC	Specification @ 25ºC	Spec over -40ºC to +85ºC
Low Band Response				
Passband Iloss	806 - 821	-1.60	-2.30	-2.50
Passband Ripple	806 - 821	0.50	0.90	1.00
Passband Return Loss @ Ant	806 - 821	-15.60	-14.00	-14.00
Passband Return Loss @ Port 2	806 - 821	-15.60	-14.00	-14.00
Attenuation	733.5	-63.00	-50.00	-50.00
	851 - 866	-52.80	-50.00	-50.00
	1207.5	-60.00	-50.00	-50.00
	1612 - 1642	-38.00	-30.00	-30.00
High Band Response				
Passband Iloss	851 - 866	-1.70	-2.30	-2.50
Passband Ripple	851 - 866	0.30	0.90	1.00
Passband Return Loss @ Ant	851 - 866	-15.80	-14.00	-14.00
Passband Return Loss @ Port 3	851 - 866	-15.80	-14.00	-14.00
Attenuation	733.5	-49.00	-45.00	-45.00
	806 - 821	-55.50	-50.00	-50.00
	1207.5	-60.00	-50.00	-50.00
	1702 - 1732	-34.00	-30.00	-30.00
Power into any port		3 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

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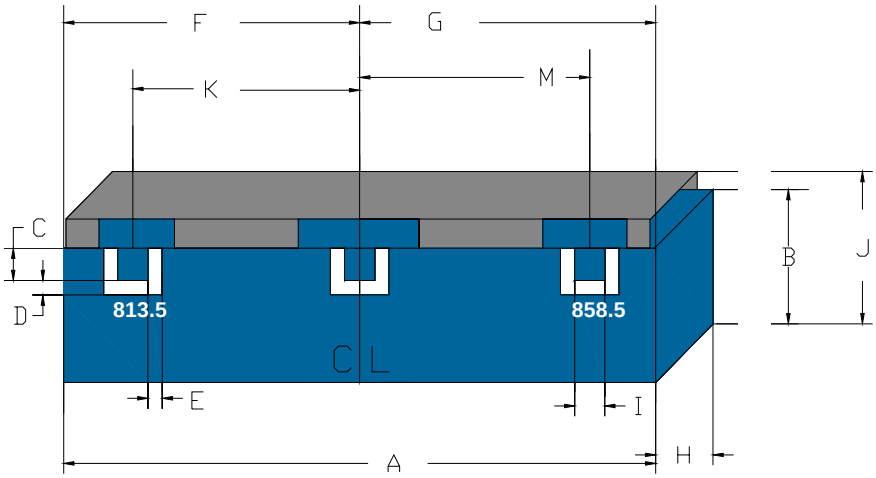
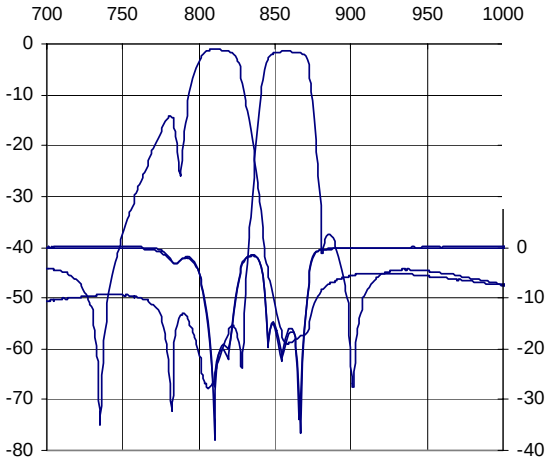
Mechanical Drawing

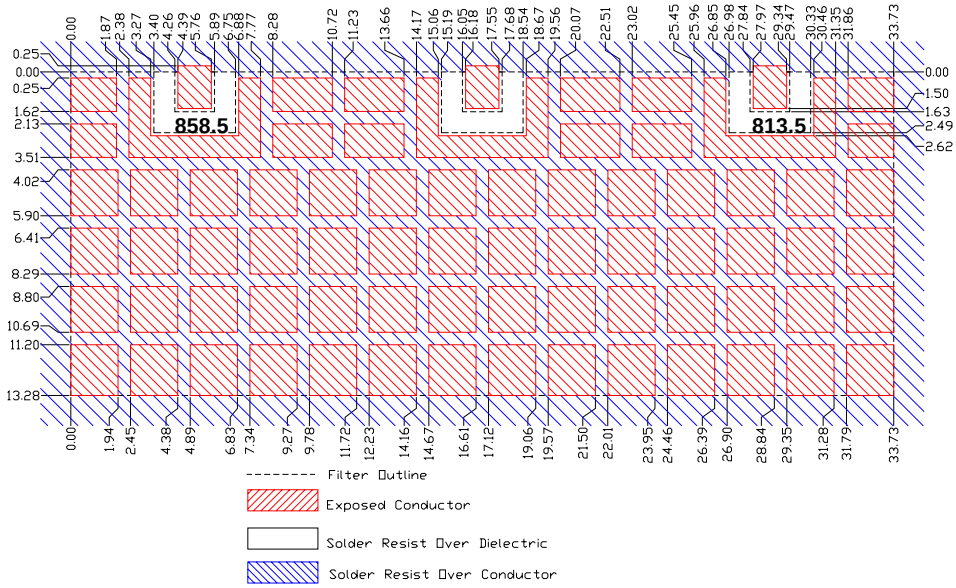


Dimension	Nominal (mm)	Tolerance (mm) +/-
A	33.73	0.27
B	13.28	max
C	1.63	0.13
D	0.86	0.13
E	0.86	0.13
F	16.87	0.13
G	16.87	0.13
H	6.56	max
I	1.63	0.13
J	14.00	max
K	11.79	0.13
M	11.79	0.13

Electrical Response

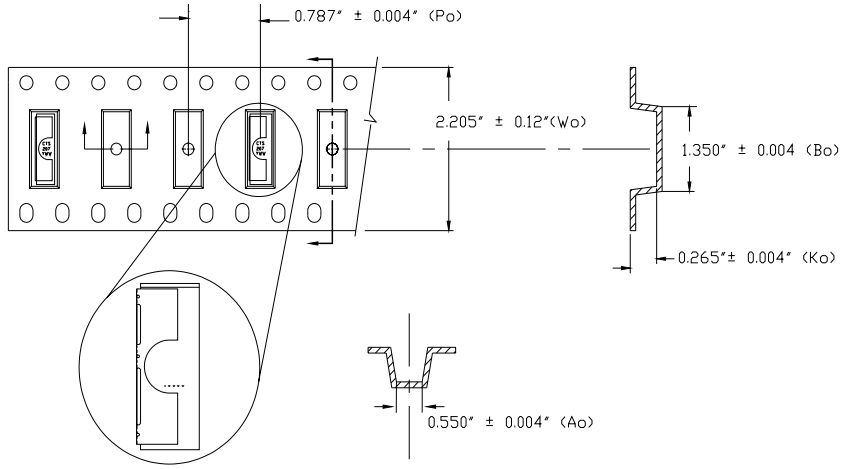


PCB Layout



Packaging and Marking

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	**mm**	330
REEL WEIGHT	**kg**	4
REEL QUANTITY	**ea.**	250



Customer Feed Direction