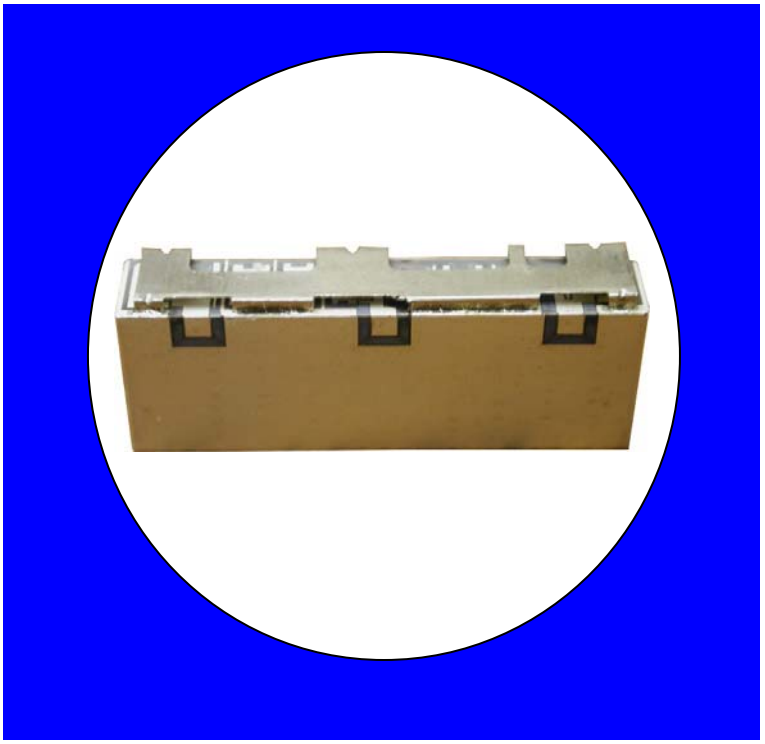
CER0784B

778MHZ Duplexer

Preliminary D – Origin Date: Jan 15, 2013 – Revision Date: May 10, 2013

Features

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



Description

Surface mount, silver (Ag) coated ceramic duplexer.

Weight: 13.72 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	758 - 768	-1.80	-2.20	-2.40
Passband Ripple	758 - 768	0.50	0.90	1.00
Passband Return Loss @ Port 2	758 - 768	-14.00	-13.00	-13.00
Passband Return Loss @ Ant	758 - 768	-14.00	-13.00	-13.00
Attenuation	1 - 698	-39.00	-37.00	-37.00
	698 - 728	-39.00	-37.00	-37.00
	728 - 746	-13.00	-12.00	-12.00
	799 - 870	-52.00	-50.00	-50.00
	2400 - 2500	-22.00	-20.00	-20.00
High Band Response				
Passband Iloss	788 - 798	-2.00	-2.30	-2.50
Passband Ripple	788 - 798	0.50	0.90	1.00
Passband Return Loss @ Port 3	788 - 798	-14.00	-13.00	-13.00
Passband Return Loss @ Ant	788 - 798	-14.00	-13.00	-13.00
Attenuation	40 - 768	-50.00	-46.00	-46.00
	769 -775	-41.00	-40.00	-40.00
	824 - 849	-26.00	-25.00	-25.00
	851 - 870	-40.00	-36.00	-36.00
	1576 - 1596	-40.00	-35.00	-35.00
Isolation (S23)				
Rejection @ Low Band	758 - 768	-61.00	-60.00	-60.00
Rejection @ High Band	788 - 798	-64.00	-62.00	-62.00
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

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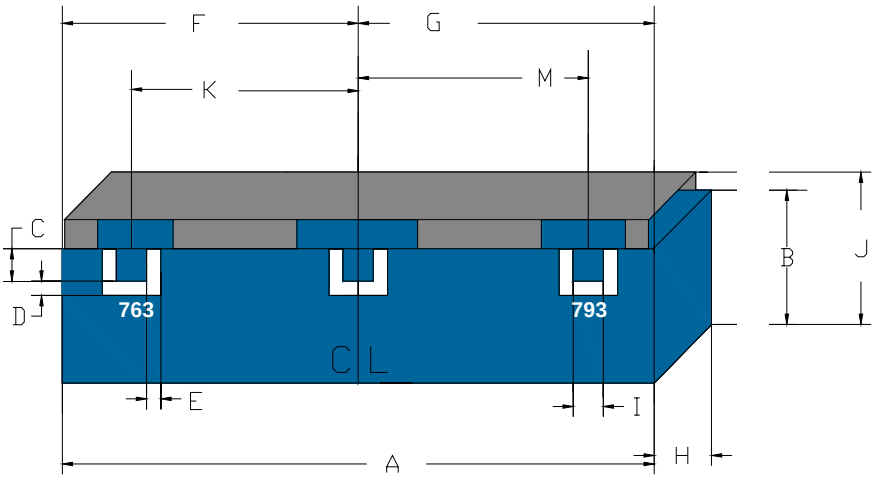
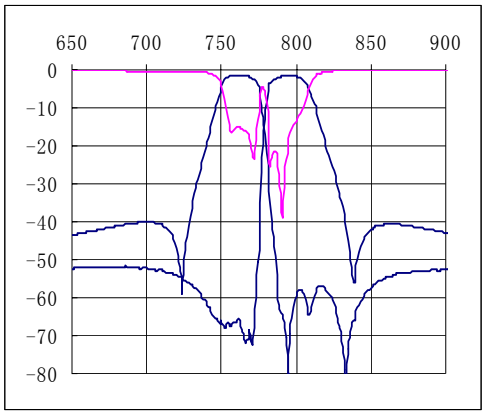
Mechanical Drawing

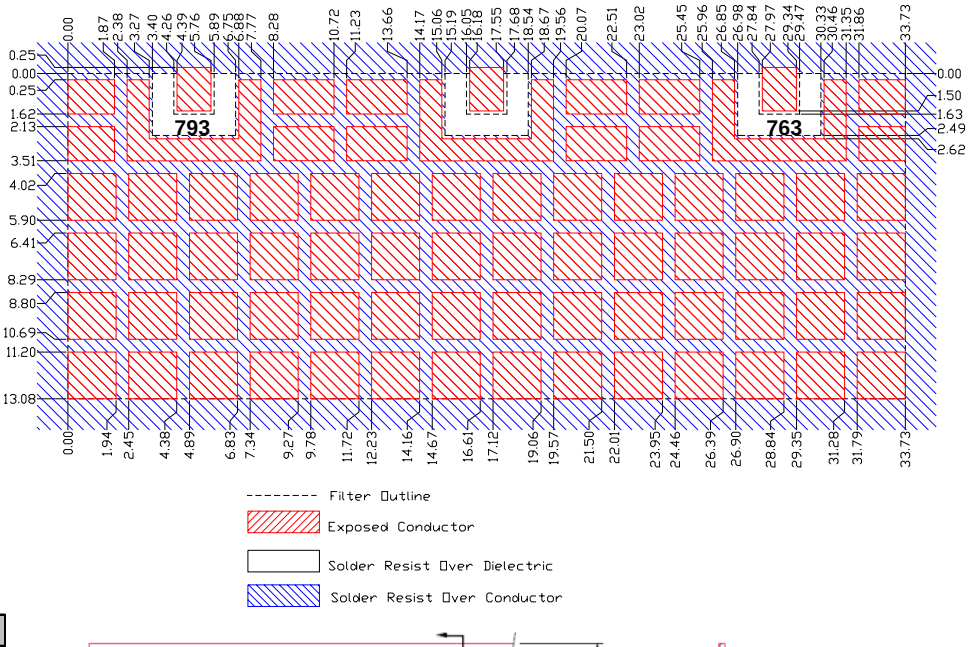


Dimension	Nominal (mm)	Tolerance (mm) +/-
A	33.73	0.27
B	13.45	max
C	1.63	0.13
D	0.86	0.13
E	0.86	0.13
F	16.87	0.13
G	16.87	0.13
H	6.56	max
I	1.63	0.13
J	15.25	max
K	11.79	0.13
M	11.79	0.13

Electrical Response



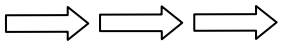
PCB Layout



Packaging and Marking

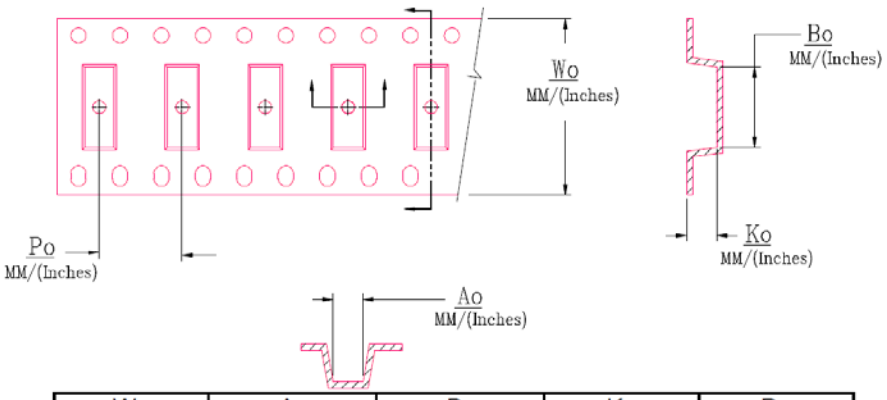
DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	3.8
REEL QUANTITY	ea.	250

Customer Feed Direction



Product Marking

CTS
84B
YWW



Wo Inches/mm	Ao Inches/mm	Bo Inches/mm	Ko Inches/mm	Po Inches/mm
2.205" / 56.0	TBD	1.350" / 34.29	0.265" / 6.73	0.787" / 20.0