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CER0335A

800 MHz Duplexer

Rev 1 – Origin Date: December 5, 2005 – Revision Date: June 5, 2006

Features

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

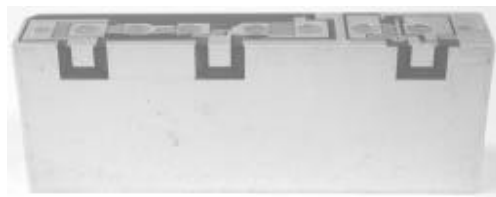
Description

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

Weight: 12.25 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 @ 25°C	Specification @ 25°C	Spec over -40°C to +85°C
Low Band Response (S21)				
Passband Iloss	805 - 870	0.50	0.90	1.00
Passband Return Loss @ Port 2	805 - 870	-14.00	-12.00	-12.00
Passband Return Loss @ Ant	805 - 870	-14.00	-12.00	-12.00
Attenuation	895 - 942	-13.00	-10.00	-10.00
High Band Response (S13)				
Passband Iloss	895 - 942	-0.95	-1.10	-1.20
Passband Return Loss @ Port 3	895 - 942	-14.00	-12.00	-12.00
Passband Return Loss @ Ant	895 - 942	-14.00	-12.00	-12.00
Attenuation	805 - 870	-13.00	-10.00	-10.00
Power into any port		6 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

*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;FR 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;JE 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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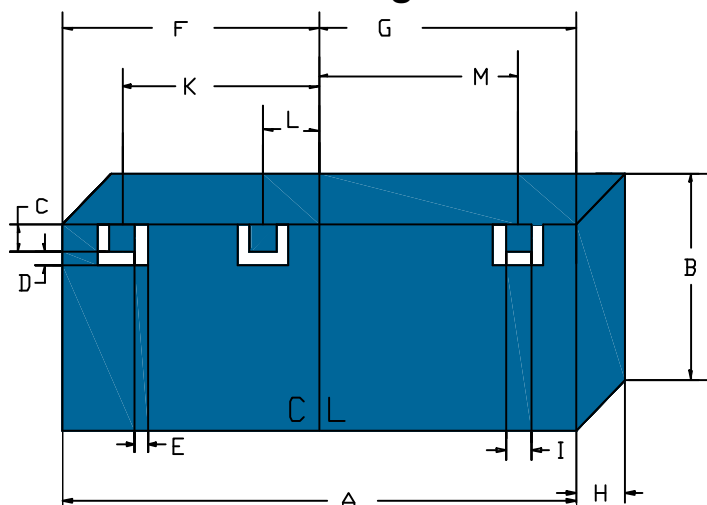
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800 MHZ Duplexer

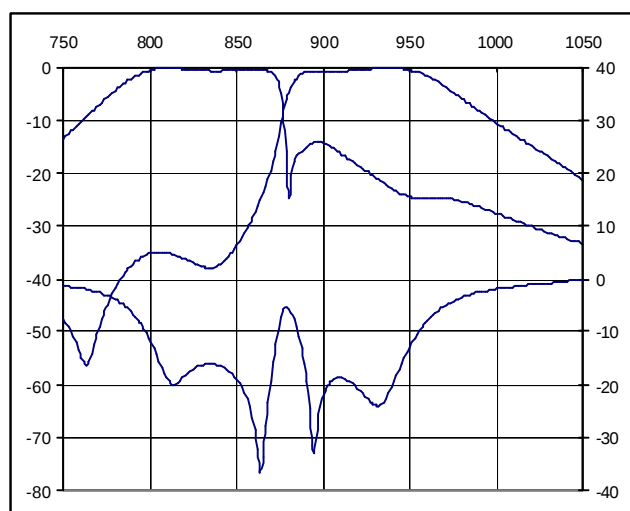
Mechanical Drawing

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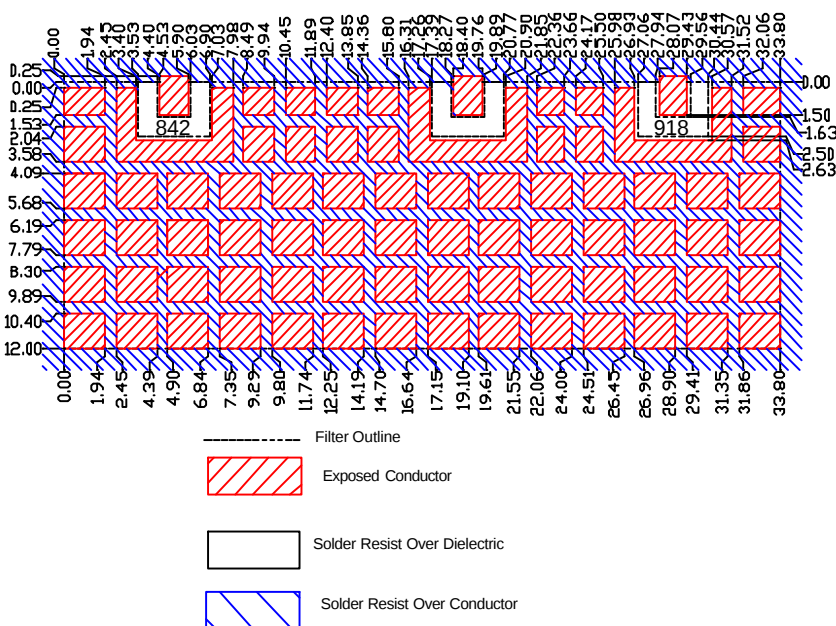


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	33.80	max
B	12.00	max
C	1.63	0.13
D	0.87	0.13
E	0.87	0.13
F	16.70	0.13
G	16.70	0.13
H	6.50	max
I	1.63	0.13
J		
K	11.75	0.25
L	2.18	0.25
M	11.78	0.25

Electrical Response

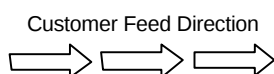


PCB Layout



Packaging and Marking

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



Product Marking

