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CER0472B

900 MHz Duplexer

Rev 1 – Origin Date: October 6, 2006 – Revision Date: March 15, 2007

Features

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

Description

Surface mount, silver (Ag) coated ceramic duplexer. Developed for use in 900 MHz Infrastructure Applications.

Weight: 12.0 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	890 - 915	-1.80	-2.20	-2.40
Passband Ripple	890 - 915	0.80	1.30	1.40
Passband Return Loss @ Port 2	890 - 915	-15.30	-12.00	-12.00
Passband Return Loss @ Ant	890 - 915	-14.40	-12.00	-12.00
Attenuation	870	-21.00	-18.00	-18.00
	935 - 960	-55.90	-52.00	-52.00
High Band Response (S13)				
Passband Iloss	935 - 960	-1.80	-2.20	-2.40
Passband Ripple	935 - 960	0.80	1.30	1.40
Passband Return Loss @ Port 3	935 - 960	-15.10	-12.00	-12.00
Passband Return Loss @ Ant	935 - 960	-14.80	-12.00	-12.00
Attenuation	890 - 915	-56.90	-52.00	-52.00
Isolation (S23)				
Rejection @ Low Band	890 - 915	-61.00	-55.00	-55.00
Rejection @ High Band	935 - 960	-60.00	-55.00	-55.00
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;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;IE 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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Document No. 008-0256-0

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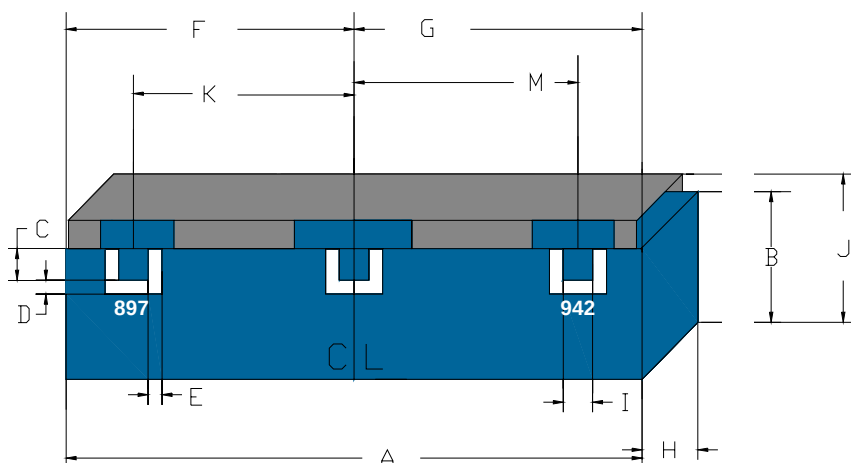
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CER0472B

900 MHZ Duplexer

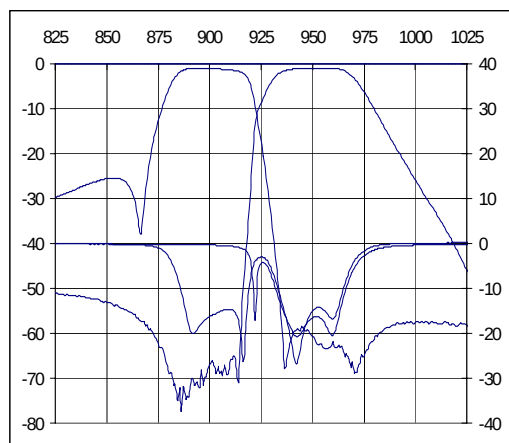
Mechanical Drawing

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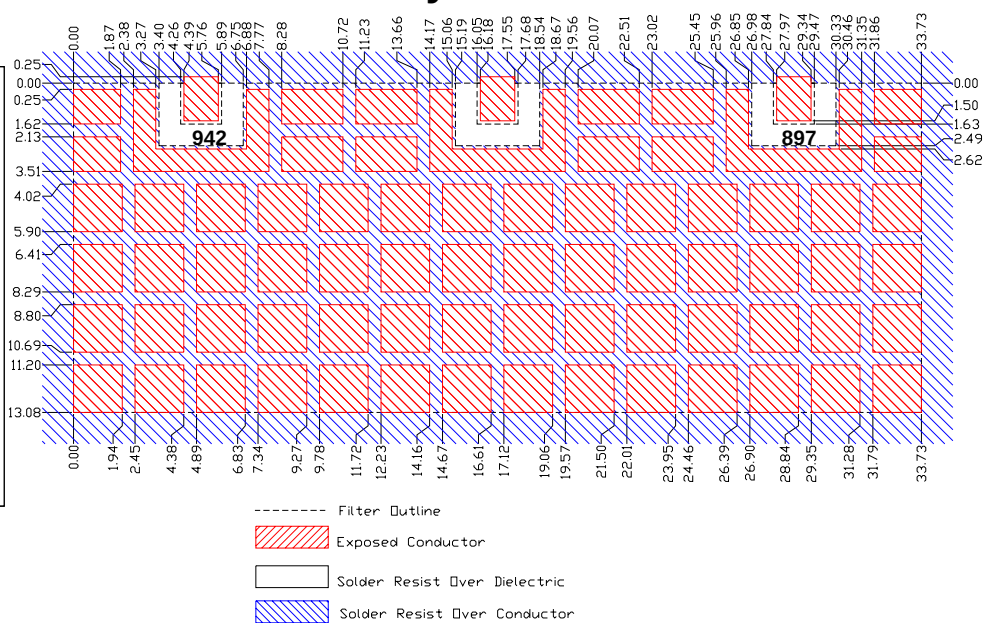


Dimension	Nominal (mm)	Tolerance (mm) +/-
A	33.73	0.27
B	13.08	max
C	1.63	0.13
D	0.86	0.13
E	0.86	0.13
F	16.87	0.13
G	16.87	0.13
H	6.56	max
I	1.63	0.13
J	14.00	max
K	11.79	0.13
M	11.79	0.13

Electrical Response

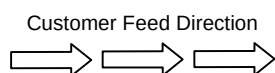


PCB Layout



Packaging and Marking

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



Product Marking

CTS
72B
YWW

