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CER0540A

800 MHz AMPS Duplexer

Revision B – Origin Date: October 19, 2007 – Revision Date: July 28, 2011

Features

- Extended pass band
- Low loss
- High rejection

Description

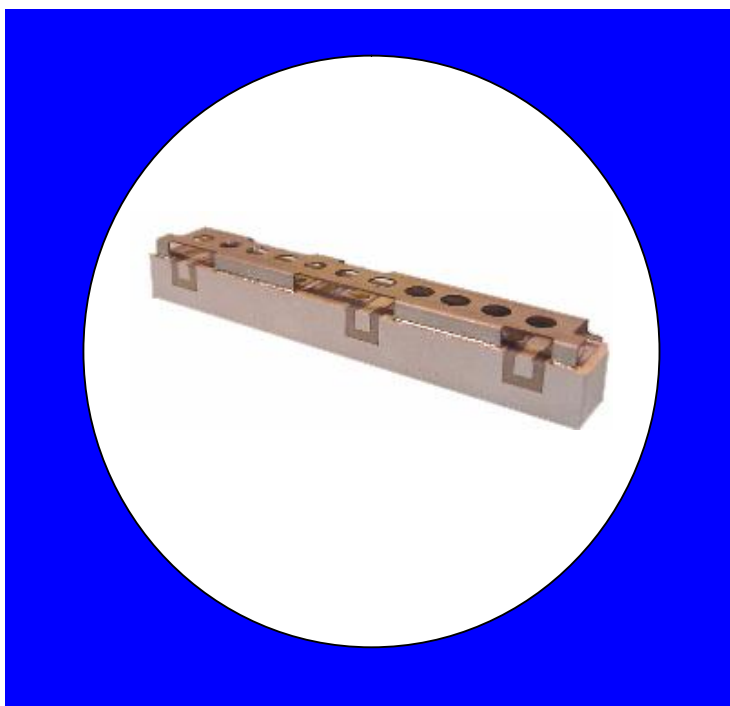
Surface mount, silver (Ag) coated ceramic duplexer. Developed for use in GSM Infrastructure applications.

Weight: Approximately 20.0 grams typical

Material: Filter is composed of a ceramic block plated 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 (S21)				
Passband Iloss	824 - 849	-1.70	-1.90	-2.10
Passband Ripple	824 - 849	0.50	0.90	1.00
Passband Return Loss @ Port 2	824 - 849	-12.50	-10.00	-10.00
Passband Return Loss @ Ant	824 - 849	-12.50	-10.00	-10.00
Attenuation	869 - 894	-58.00	-55.00	-55.00
High Band Response (S13)				
Passband Iloss	869 - 894	-1.70	-1.90	-2.10
Passband Ripple	869 - 894	0.40	0.90	1.00
Passband Return Loss @ Port 3	869 - 894	-12.50	-10.00	-10.00
Passband Return Loss @ Ant	869 - 894	-12.50	-10.00	-10.00
Attenuation	824 - 849	-57.00	-55.00	-55.00
Isolation (S23)				
Rejection @ Low Band	824 - 849	-58.00	-55.00	-55.00
Rejection @ Crossover	859	-42.50	-40.00	-40.00
Rejection @ High Band	869 - 894	-58.00	-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;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;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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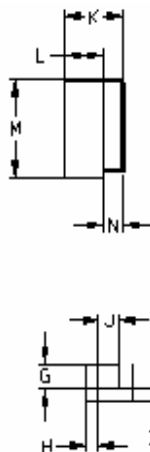
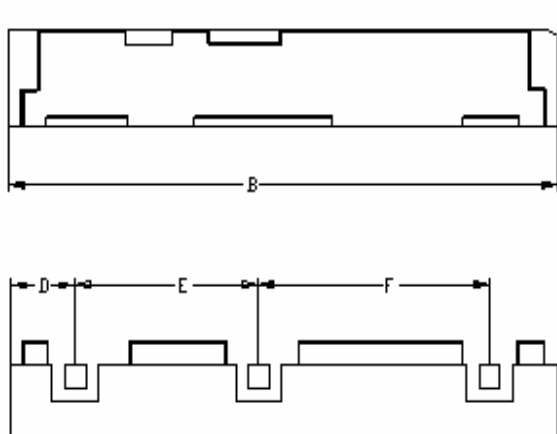
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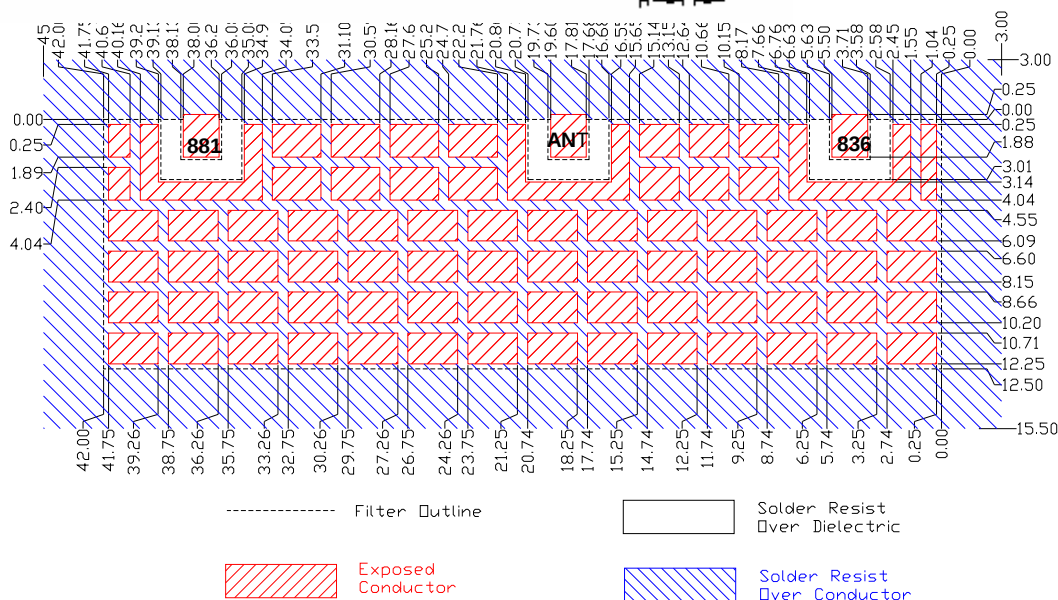
Mechanical Drawing

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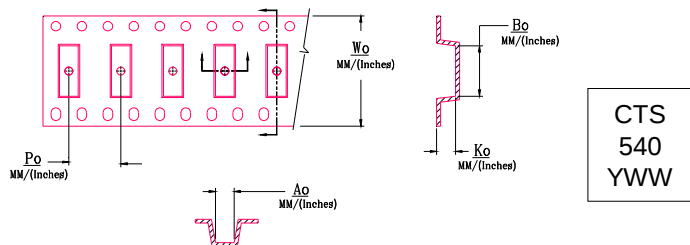


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A		
B	42.0	max
C		
D	4.6	0.25
E	14.1	0.13
F	18.4	0.13
G	2.01	0.13
H	1.00	0.13
I	1.00	0.13
J	2.05	0.13
K	14.15	max
L	12.5	Max
M	8.0	max
N	1.65	0.13

PCB Layout

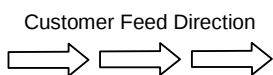


Packaging and Marking



Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
2.205"/56.0	0.569"/14.45	1.665"/42.3	0.315"/8.0	0.787"/20.0

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	1.6
REEL QUANTITY	ea.	250



Electrical response

