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CER0541A

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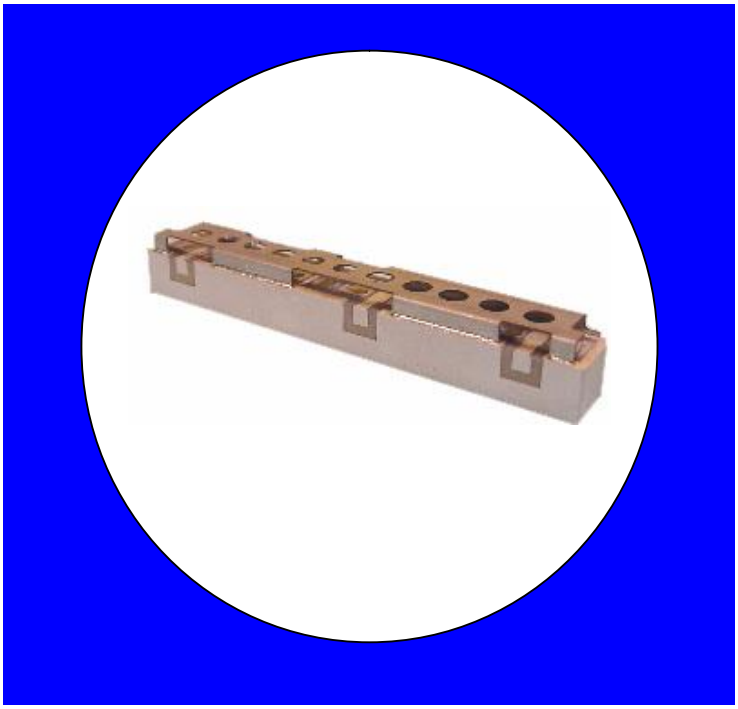
CER0541A

1900 MHz PCS 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 8.0 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 @ 25ºC	Specification @ 25ºC	Spec over -40ºC to +90ºC
Low Band Response (S21)				
Passband Iloss	1850 - 1910	-2.40	-2.70	-3.00
Passband Ripple	1850 - 1910	1.70	1.85	2.00
Passband Return Loss @ Port 2	1850 - 1910	-14.00	-12.00	-12.00
Passband Return Loss @ Ant	1850 - 1910	-14.00	-12.00	-12.00
Attenuation	1930 - 1990	-42.50	-40.00	-40.00
High Band Response (S13)				
Passband Iloss	1930 - 1990	-2.50	-2.70	-3.00
Passband Ripple	1930 - 1990	1.70	1.85	2.00
Passband Return Loss @ Port 3	1930 - 1990	-12.00	-10.00	-10.00
Passband Return Loss @ Ant	1930 - 1990	-12.00	-10.00	-10.00
Attenuation	1850 - 1910	-42.00	-40.00	-40.00
Isolation (S23)				
Rejection @ Low Band	1850 - 1910	-43.00	-40.00	-40.00
Rejection @ High Band	1930 - 1990	-43.00	-40.00	-40.00
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

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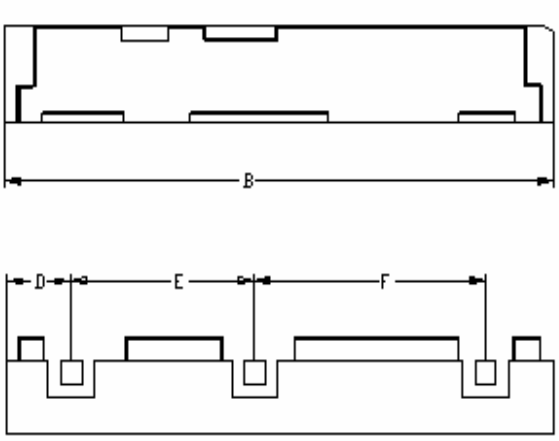
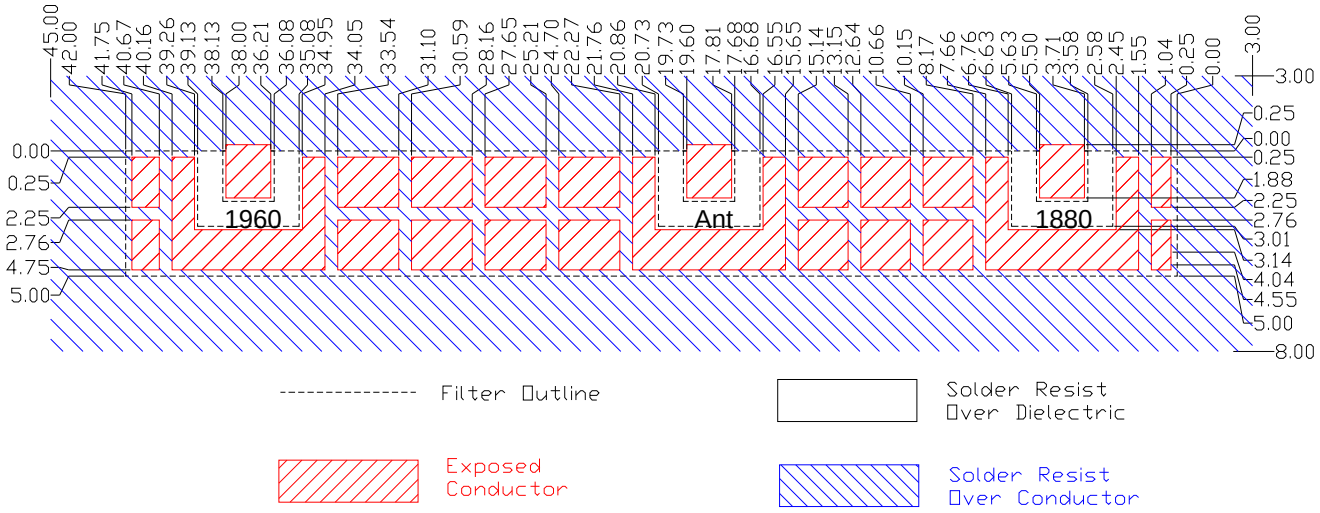
Mechanical Drawing

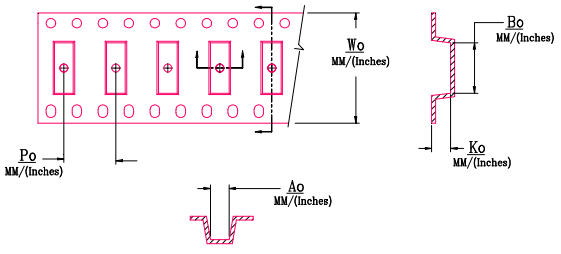


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A		
B	42.0	max
C		
D	4.6	0.25
E	14.1	0.13
F	18.4	0.13
G	2.01	0.13
H	1.00	0.13
I	1.00	0.13
J	2.05	0.13
K	6.65	max
L	5.0	Max
M	8.0	max
N	1.65	0.13

PCB Layout



Packaging and Marking



CTS
541
YWW

Wo Inches/mm	Ao Inches/mm	Bo Inches/mm	Ko Inches/mm	Po Inches/mm
2.205"/56.0	0.274"/6.95	1.665"/42.3	0.315"/8.0	0.472"/12.0

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	1
REEL QUANTITY	ea.	250

Customer Feed Direction

Electrical response