Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

CER0121A

2100 MHz W-CDMA Duplexer

Rev 2 – Origin Date: July 11, 2005 – Revision Date: March 3, 2006

Features

- Low loss
- Flat Low Ripple
- High Rejection

Description

Surface mount, silver (Ag) coated ceramic duplexer. Developed for use in W-CDMA infrastructure applications.

Weight: 3.0 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	Spec. @ 25ºC	Spec. Over -40ºC to +85ºC
High Band Response (S21)				
Passband Insertion Loss	2110-2170	1.09 dB	1.3 dB max	1.50 dB max
Passband Return Loss @ S22	2110-2170	18.0dB	12.5 dB min	12.0 dB min
Passband Return Loss @ ANT	2110-2170	19.0 dB	12.5 dB min	12.0 dB min
Passband Ripple	2110-2170	0.05	0.60 dB max	0.80 dB max
Attenuation:	1920-1980	61.3 dB	55.5 min	55.0 dB min
Low Band Response (S13)				
Passband Insertion Loss	1920-1980	0.91 dB	1.3 dB max	1.5 dB max
Passband Return Loss @ S33	1920-1980	17.0dB	12.5 dB min	12.0 dB min
Passband Return Loss @ ANT	1920-1980	18.0 dB	12.5 dB min	12.0 dB min
Passband Ripple	1920-1980	0.05 dB	0.60 dB max	0.80 dB max
Attenuation:	2110-2170	56.8 dB	55.5 dB min	55 dB min
Isolation				
Rejection @ High band	2110-2170	58 dB	55.5 dB min	55 dB min
Rejection @ Low band	1920-1980	65 dB	55.5 dB min	55 dB min
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:

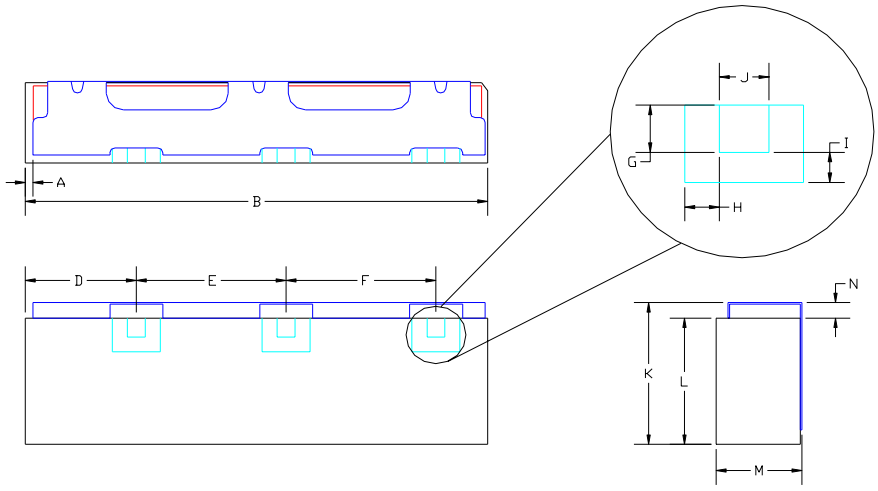
Specification	Allowance
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

CER0121A

2100 MHz W-CDMA Duplexer

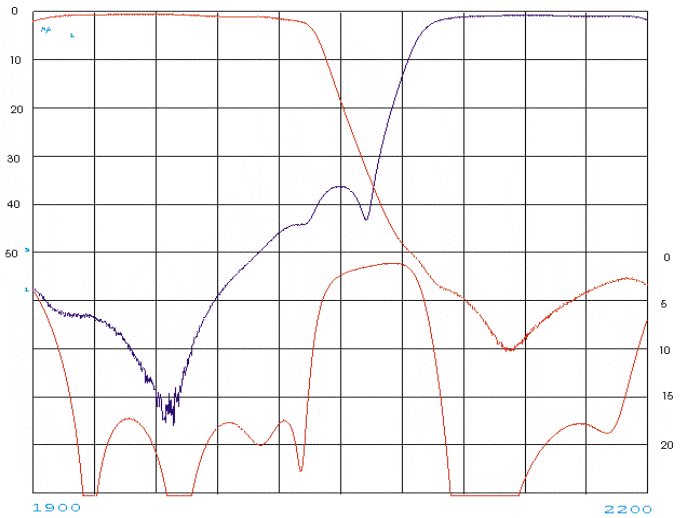
Rev 1 – Origin Date: July 11, 2005 – Revision Date: Dec. 19, 2005

Mechanical Drawing

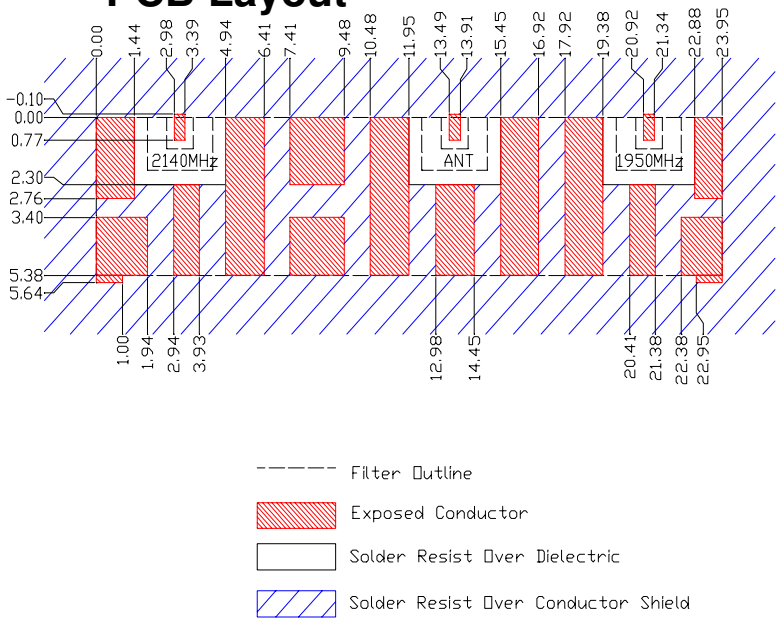


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	0.25	0.25
B	24.04	max
C		
D	2.72	0.25
E	7.44	0.13
F	10.52	0.13
G	1.02	0.13
H	0.79	0.13
I	0.79	0.13
J	0.89	0.13
K	6.75	max
L	5.64	max
M	4.60	max
N	0.84	0.13

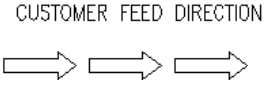
Electrical response

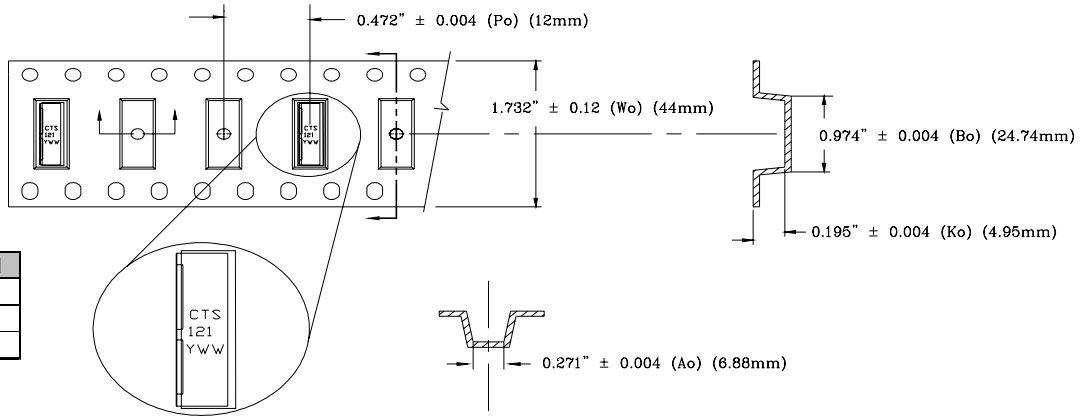


PCB Layout



Packaging and Marking





DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	2.3 max
REEL QUANTITY	ea.	500