

Features

- High Rejection
- Low Ripple
- Low Loss

Description

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

Weight: 3.2 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	Spec. @ 25°C	Spec. Over -40°C to +85°C
Low Band Response				
Passband Insertion Loss	1940 - 1955	-2.6	-2.9	-3.2
Passband Ripple	1940 - 1955	0.5	1.2	1.5
Passband Return Loss @ Ant	1940 - 1955	-21	-15	-15
Passband Return Loss @ Low Band	1940 - 1955	-21	-15	-15
Attenuation	0.1 - 1200	-47.9	-43	-43
	1200 - 1880	-37.2	-33	-33
	1880 - 1920	-18.4	-15	-15
	1975 - 1980	-18	-15	-15
	2010 - 2700	-40.2	-35	-35
High Band Response				
Passband Insertion Loss	2130 - 2145	-2.4	-2.7	-3
Passband Ripple	2130 - 2145	0.5	1.2	1.5
Passband Return Loss @ Ant	2130 - 2145	-19	-15	-15
Passband Return Loss @ High Band	2130 - 2145	-19	-15	-15
Attenuation:	0.1 - 2025	-48.4	-43	-43
	2025 - 2110	-18	-15	-15
	2165 - 2200	-17	-15	-15
	2200 - 3000	-39.6	-35	-35
Isolation				
Rejection @ Low band	1940 - 1955	-56	-50	-50
Rejection @ High band	2130 - 2145	-48	-45	-45
Power into any port			2 Watts 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:

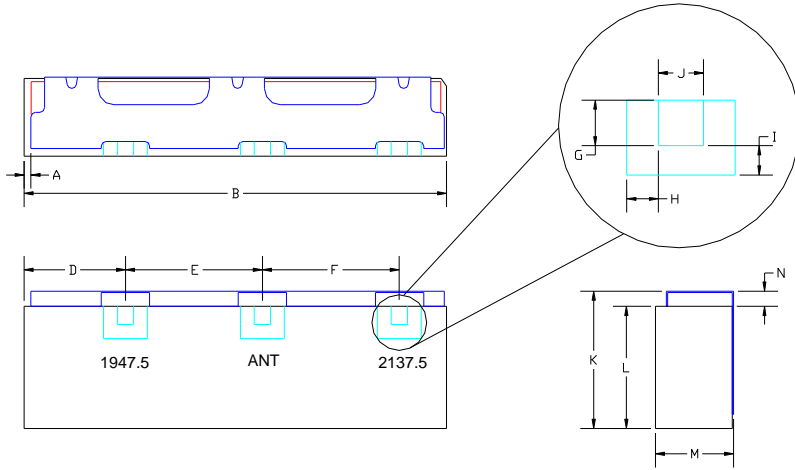
Specification Allowance

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 95130359.4;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.

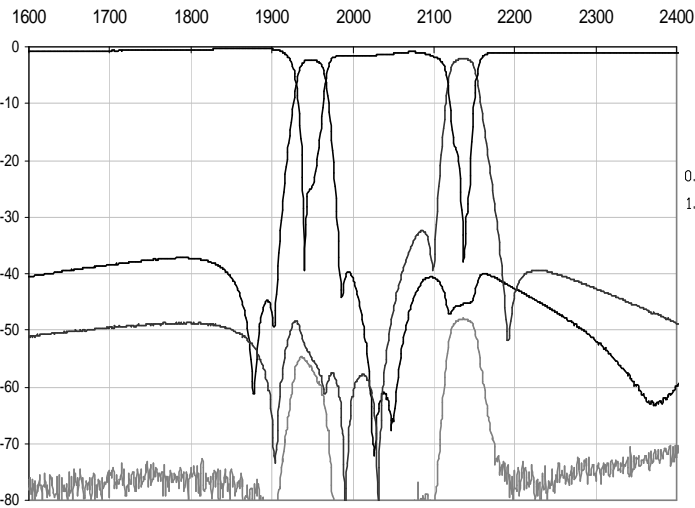
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Mechanical Drawing

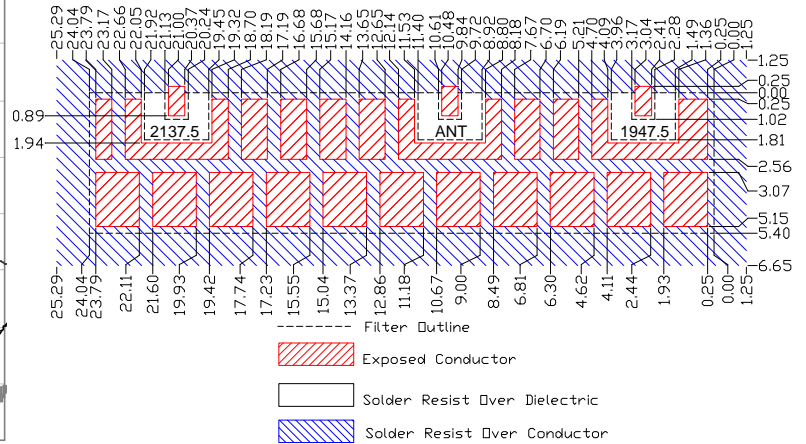


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	0.25	0.25
B	24.04	max
C		
D	2.72	0.25
E	7.44	0.13
F	10.52	0.13
G	1.02	0.13
H	0.79	0.13
I	0.79	0.13
J	0.89	0.13
K	6.51	max
L	5.4	max
M	4.60	max
N	0.84	0.13

Electrical response

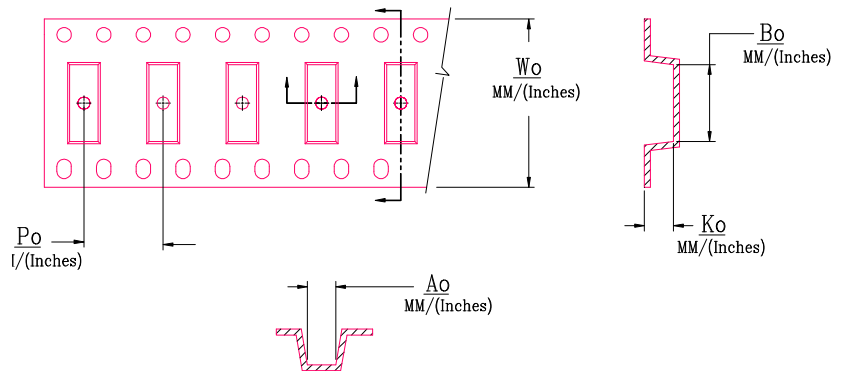
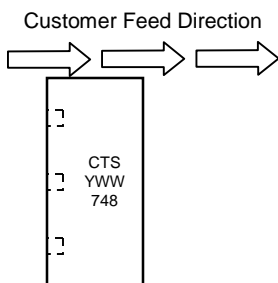


PCB Layout



Packaging and Marking

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



Wo	Ao	Bo	Ko	Po
mm/Inches	mm/Inches	mm/Inches	mm/Inches	mm/Inches
44.0/1.73"	6.88/0.271"	24.74"/0.974"	4.95/0.195"	12/0.472"

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