

Features

- Low Loss
- Low Ripple

Description

Surface mount, silver (Ag) coated ceramic duplexer.

Weight: 3.4 grams typical

Material: Filter is composed of a ceramic block coated with Ag and a shield made of nickel silver plated steel.

Filter complies with RoHS standards.



Electrical Specifications

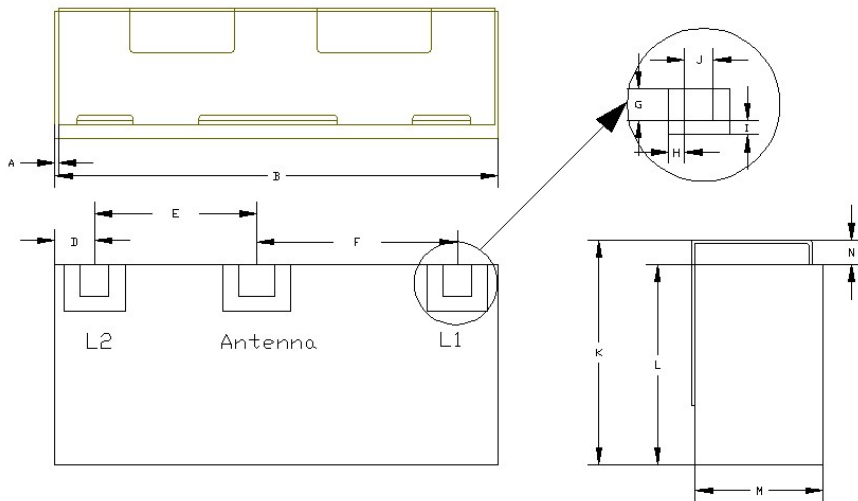
Parameter	Frequency (MHz)	Typical 25°C	Spec. @ +25°C	Spec. over -55°C to +85°C
Antenna to L1 Response				
Insertion Loss	1565 - 1586	1.5	1.8 dB max	2.0 dB max
Insertion Loss Ripple	1565 - 1586	0.3	0.6 dB max	0.7 dB max
Return Loss	1565 - 1586	15.5	14 dB min	14 dB min
Group Delay Var, ns	1565 - 1586	2.5	7.5 max	10 max
Max Group Delay, ns	1565 - 1586	18.0	25 max	25 max
Rejection	1000	55.0	40 dB min	46 dB min
	1315	45.0	41 dB min	41 dB min
	1504.5	44.0	36 dB min	36 dB min
	1525	24.0	21 dB min	21 dB min
	1550	5.0	3.5 dB min	3.5 dB min
	1554.5	3.5	2 dB min	2 dB min
	1557	3.0	1.5 dB min	1.5 dB min
	1600	3.0	1.5 dB min	1.5 dB min
	1605.5	6.5	4 dB min	4 dB min
	1610	12.0	8 dB min	8 dB min
	1618	22.0	16 dB min	16 dB min
	1625	30.0	28 dB min	28 dB min
	1660	48.0	36 dB min	36 dB min
	2000	60.0	56 dB min	56 dB min
Input and output impedance			50 Ohm	
Power into any port			1W max	

Parameter	Frequency (MHz)	Typical 25°C	Spec. @ +25°C	Spec. over -55°C to +85°C
Antenna to L2 Response				
Insertion Loss	1216 - 1238	1.5	1.8 dB max	2.0 dB max
Insertion Loss Ripple	1216 - 1238	0.3	0.6 dB max	0.7 dB max
Return Loss	1216 - 1238	6.0	14 dB min	14 dB min
Group Delay Var, ns	1216 - 1238	2.6	7.5 max	10 max
Max Group Delay, ns	1216 - 1238	18.0	25 max	25 max
GD Diff L1-L2	1227 vs 1575	0.8	1.5 max	1.5 max
Rejection	960	50.0	41 dB min	41 dB min
	1160	44.0	31 dB min	31 dB min
	1177.5	23.0	19 dB min	19 dB min
	1200	5.5	4 dB min	4 dB min
	1207.5	3.5	2 dB min	2 dB min
	1247.5	3.0	2 dB min	2 dB min
	1250	4.0	2.5 dB min	2.5 dB min
	1255	5.0	3 dB min	3 dB min
	1277.5	25.0	21 dB min	21 dB min
	1315	57.0	48 dB min	48 dB min

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

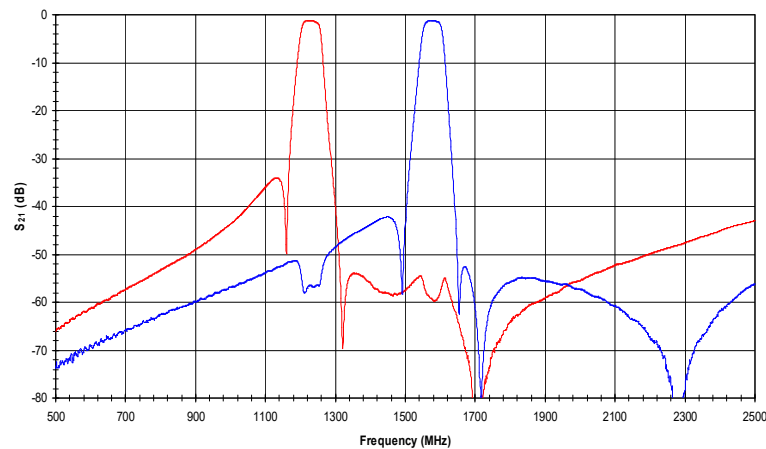
Mechanical Drawing



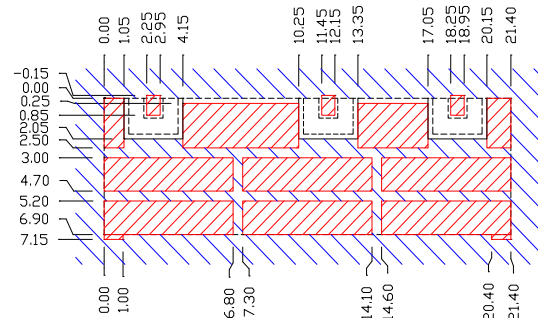
Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	0.1	0.25
B	22	max
D	2.8	0.25
E	6.8	0.25
F	9.2	0.25
G	1	0.25
H	0.8	0.1
I	0.8	0.1
J	1	0.25
K	8	max
L	6.9	0.25
M	5	max
*N	0.8	0.25

* Indicates Reference Only

Electrical response



PCB Layout



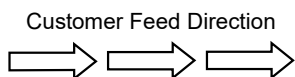
---- Filter Outline

Exposed Conductor

Solder Resist Over Dielectric

Solder Resist Over Conductor

Packaging and Marking



DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	3.0
REEL QUANTITY	ea.	500

