

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	Specification @ 25°C	Spec over -40°C to +85°C
High Band Response (S12)				
Passband lloss	1555 - 1596	-1.60	-1.80	-2.00
Passband Ripple	1560 - 1590	0.50	0.60	0.70
Passband Return Loss	1560 - 1590	-12.50	-10.00	-10.00
Passband Group Delay Variation	1560 - 1590	8.00	10.00	10.00
Attenuation	1255 - 1301	-43.00	-40.00	-40.00
	1515	-25.00	-23.00	-23.00
	1636	-25.00	-23.00	-23.00
Low Band Response (S31)				
Passband lloss	1255 - 1301	-1.60	-1.80	-2.00
Passband Ripple	1255 - 1301	0.50	0.60	0.70
Passband Return Loss	1255 - 1301	-12.50	-10.00	-10.00
Passband Group Delay Variation	1255 - 1301	8.00	10.00	10.00
Attenuation	1555 - 1596	-48.00	-45.00	-45.00
	1218	-25.00	-23.00	-23.00
	1339	-25.00	-23.00	-23.00
Power into any port		2 Watt max		

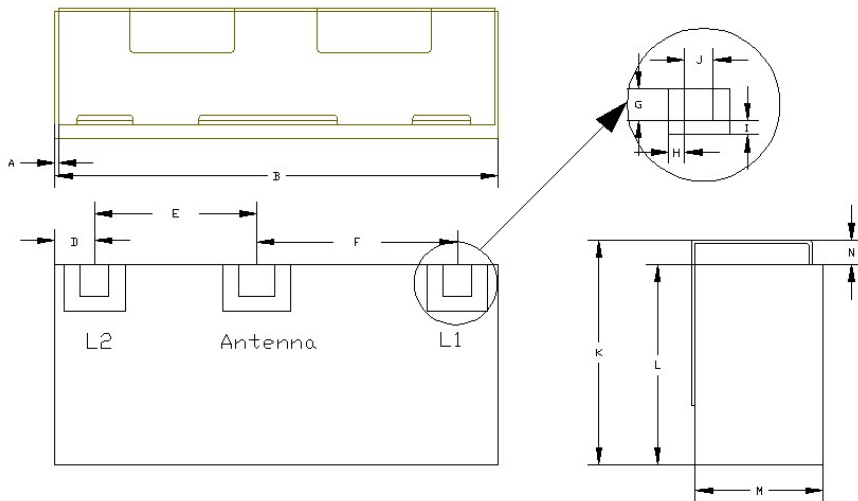
Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

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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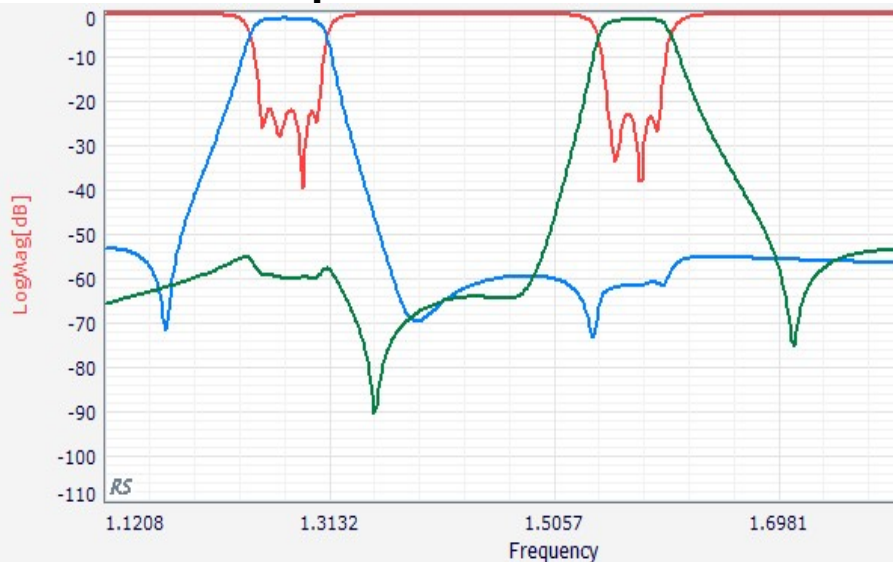
Mechanical Drawing



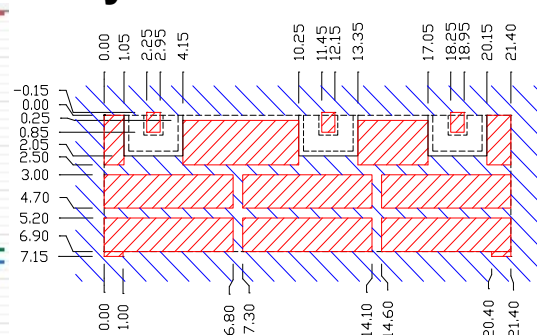
Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	0.1	0.25
B	22	max
D	2.8	0.25
E	6.8	0.25
F	9.2	0.25
G	1	0.25
H	0.8	0.1
I	0.8	0.1
J	1	0.25
K	8	max
L	6.9	0.25
M	5	max
*N	0.8	0.25

* Indicates Reference Only

Electrical response



PCB Layout



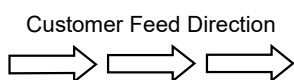
---- Filter Outline

Exposed Conductor

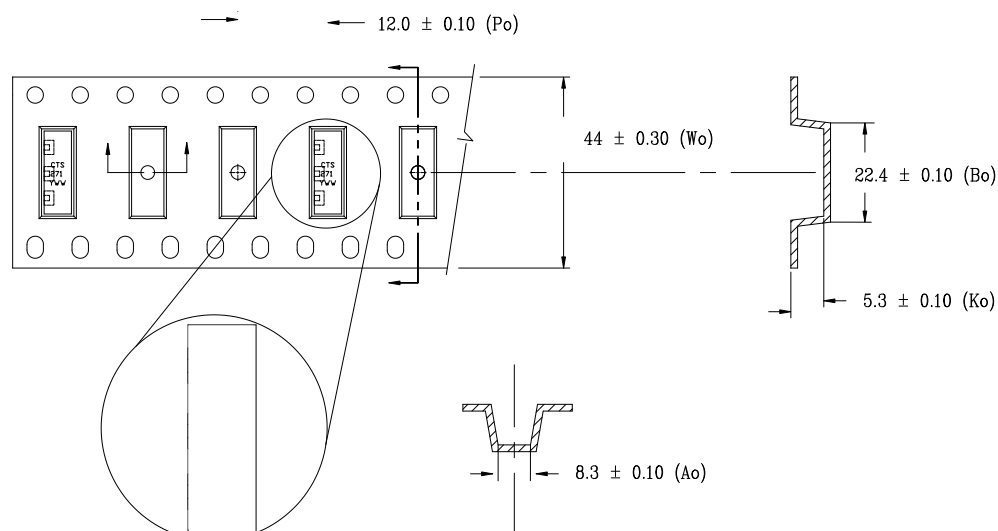
Solder Resist Over Dielectric

Solder Resist Over Conductor

Packaging and Marking



CTS
71D
YWW



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