

Features

- Low Insertion Loss
- Low Ripple
- Wide passband response

Description

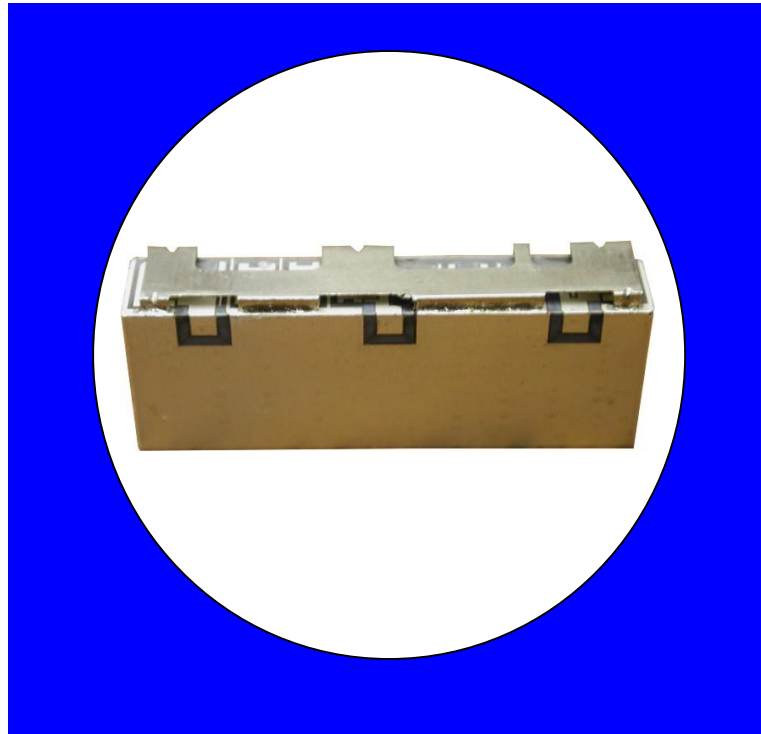
Surface mount, silver (Ag) coated ceramic diplexer. Developed for use in Infrastructure Applications.

Weight: 12.0 grams typical

Material: Filter is composed of a ceramic block plated with Ag and a shield made of Sn 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
Low Band Response				
Passband Iloss	1850 - 1995	-0.4	-0.6	-0.8
Passband Return Loss @ Port 1	1850 - 1995	-15.0	-12.0	-12.0
Passband Return Loss @ Port 2	1850 - 1995	-15.0	-12.0	-12.0
Attenuation	2496 - 2690	-50.0	-40.0	-40.0
	2400 - 2496	-45.0	-40.0	-40.0
High Band Response				
Passband Iloss	2496 - 2690	-0.6	-0.8	-0.9
Passband Iloss	2400 - 2496	-1.0	-1.2	-1.4
Passband Return Loss @ Port 1	2400 - 2690	-15.0	-12.0	-12.0
Passband Return Loss @ Port 2	2400 - 2690	-15.0	-12.0	-12.0
Attenuation	1850 - 1995	-55.0	-40.0	-40.0
Power into any port	Average	3 Watt max		
Power into any port	Peak	20 Watt max		

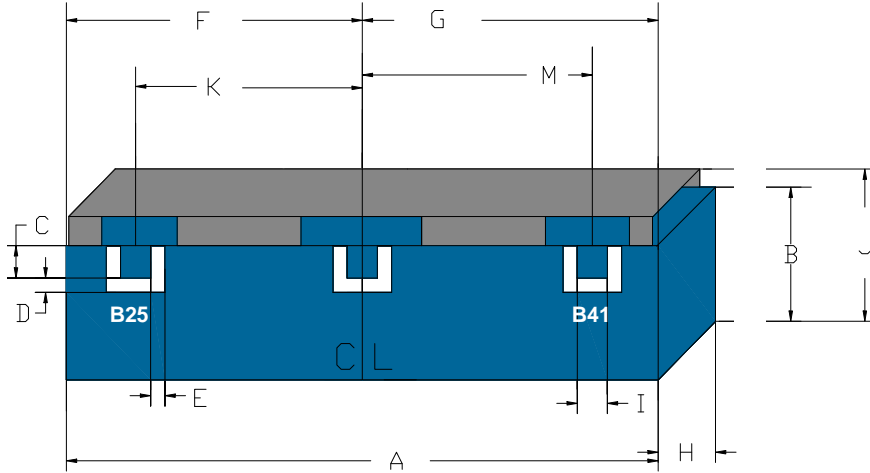
Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

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.

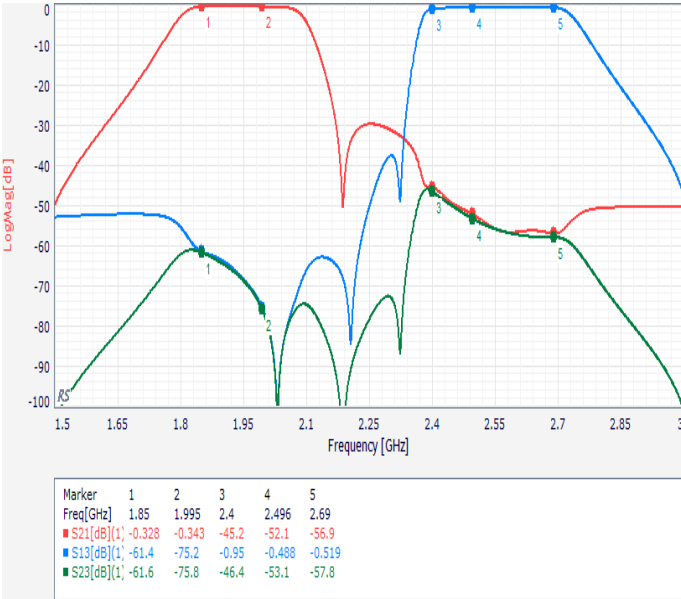
Mechanical Drawing

Rev A – Origin Date: July 27, 2015 – Revision Date: July 27, 2015

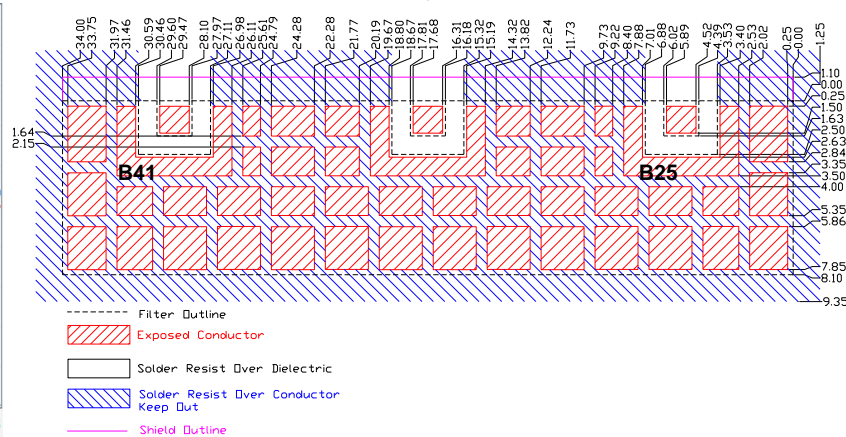


Dimension	Nominal (mm)	Tolerance (mm) +/-
A	34.00	max
B	3.80	max
C	1.63	0.13
D	0.86	0.13
E	0.86	0.13
F	16.87	0.13
G	16.87	0.13
H	6.56	max
I	1.63	0.13
J	5.30	max
K	11.79	0.13
M	11.79	0.13

Electrical Response

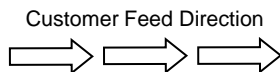


PCB Layout



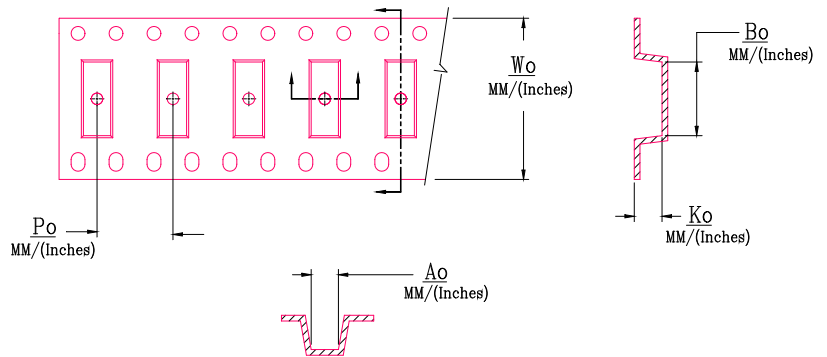
Packaging and Marking

DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	3.8
REEL QUANTITY	ea.	250



Product Marking

CTS
103
YWW



Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
2.205"/56	0.246"/6.25	1.343"/34.1	0.264"/6.7	0.472"/12.0