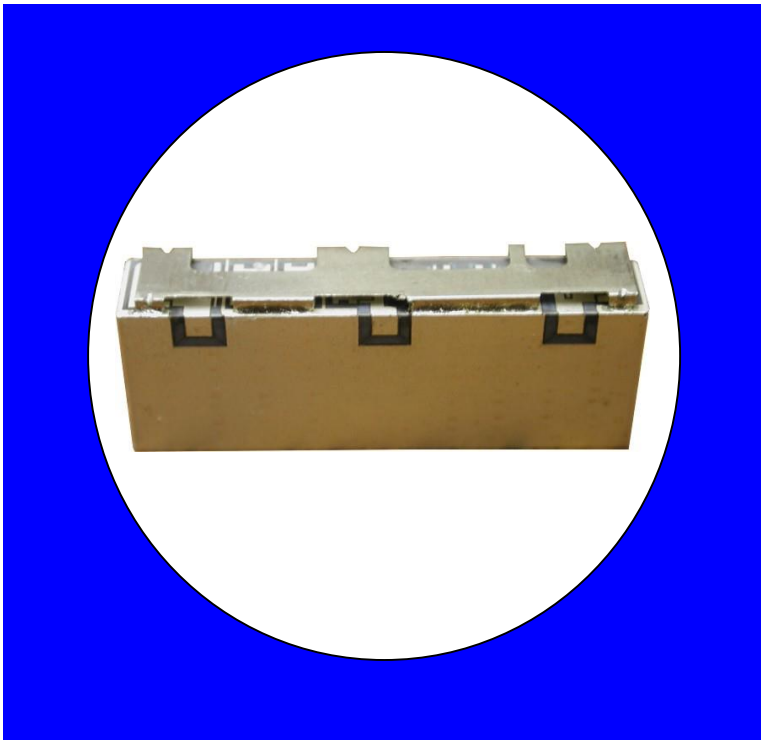
DPX0528A

Band 5 vs 12/13/14/17/28 Diplexer

Preliminary Rev D – Origin Date: January 30, 2015 – Revision Date: June 12, 2015

Features

- Low Insertion Loss
- Low Ripple
- Wide passband response



Description

Surface mount, silver (Ag) coated ceramic duplexer. 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 @ 25ºC	Specification @ 25ºC	Spec over -40ºC to +85ºC
Low Band Response				
Passband Iloss	698 - 803	-1.4	-1.6	-1.8
Passband Return Loss @ Port 1	698 - 803	-11.5	-10.0	-10.0
Passband Return Loss @ Port 2	698 - 803	-11.5	-10.0	-10.0
Attenuation	824 - 894	-23.0	-20.0	-20.0
High Band Response				
Passband Iloss	824 - 894	-1.4	-1.6	-1.8
Passband Return Loss @ Port 1	824 - 894	-11.5	-10.0	-10.0
Passband Return Loss @ Port 2	824 - 894	-11.5	-10.0	-10.0
Attenuation	698 - 803	-23.0	-20.0	-20.0
Power into any port	Average	3 Watt max		
Power into any port	Peak	20 Watt max		

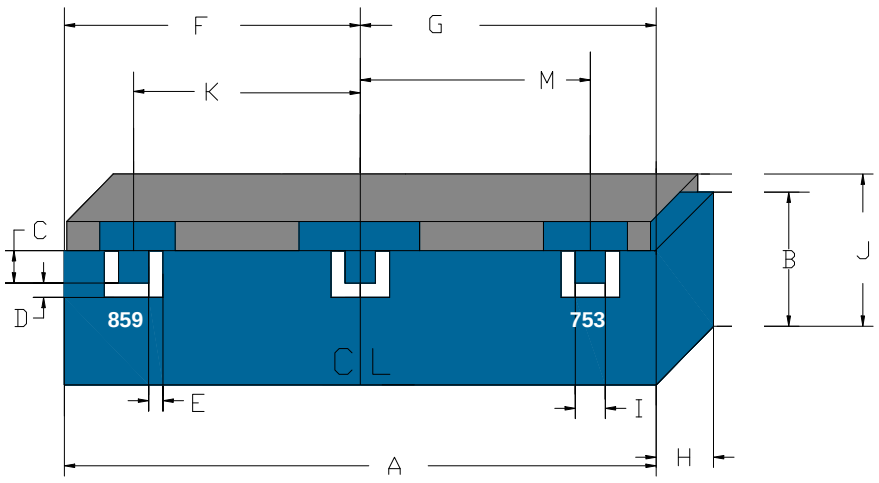
Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

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.

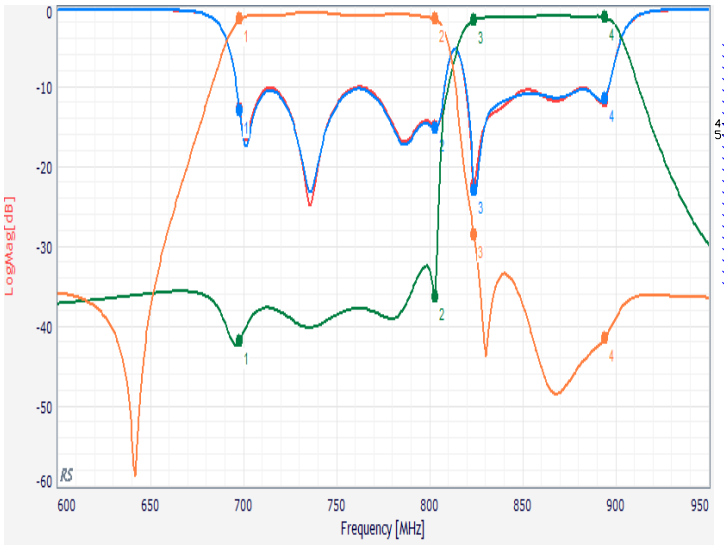
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Mechanical Drawing

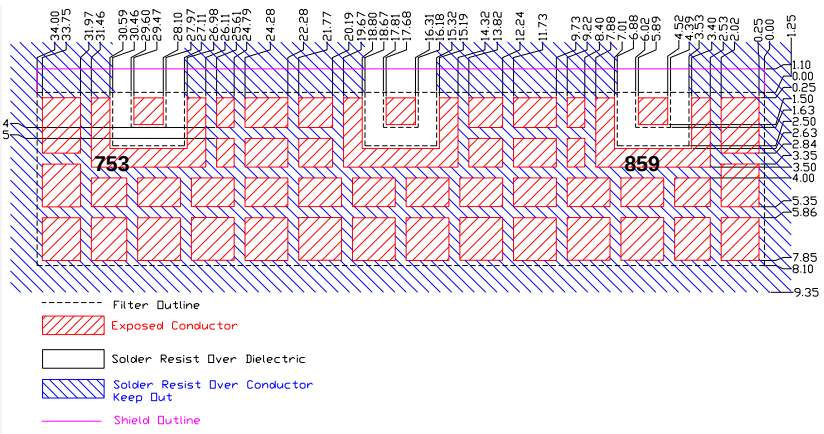


Dimension	Nominal (mm)	Tolerance (mm) +/-
A	31.67	max
B	8.10	max
C	1.63	0.13
D	0.86	0.13
E	0.86	0.13
F	15.84	0.13
G	15.84	0.13
H	7.60	max
I	1.63	0.13
J	9.20	max
K	11.79	0.13
M	11.79	0.13

Electrical Response



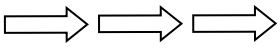
PCB Layout



Packaging and Marking

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

Customer Feed Direction



Product Marking

CTS
528
YWW

TBD