

### 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 @ 25°C	Specification @ 25°C	Spec over -40°C to +85°C
<b>Low Band Response (B12+B13)</b>				
Passband IL (5MHz avg)	698 - 757	0.5	0.6	0.7
	776 - 787	0.9	1.1	1.2
Passband Return Loss	698 - 787	14.0	12.0	12.0
Attenuation	814 - 849	22.0	20.0	20.0
	859 - 894	40.0	25.0	25.0
<b>High Band Response (B5/18/26)</b>				
Passband IL (5MHz avg)	814 - 819	1.0	1.2	1.3
	817 - 824	0.9	1.1	1.2
	824 - 849	0.8	0.9	1.0
	859 - 894	0.8	0.9	1.0
Passband Return Loss	814 - 894	14.0	12.0	12.0
Attenuation	698 - 757	40.0	25.0	25.0
	776 - 787	35.0	20.0	20.0
<b>Isolation Response</b>				
	698 - 757	40.0	25.0	25.0
	776 - 787	35.0	20.0	20.0
	814 - 849	23.0	20.0	20.0
	859 - 894	40.0	25.0	25.0
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:

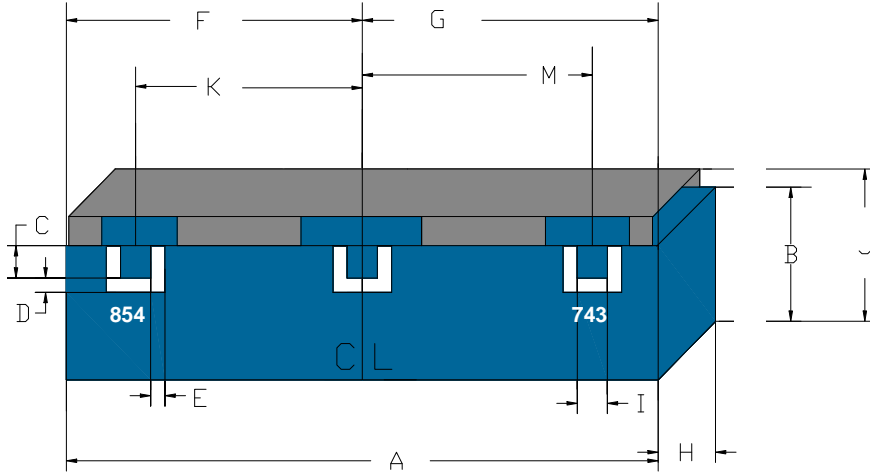
Specification Allowance

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.

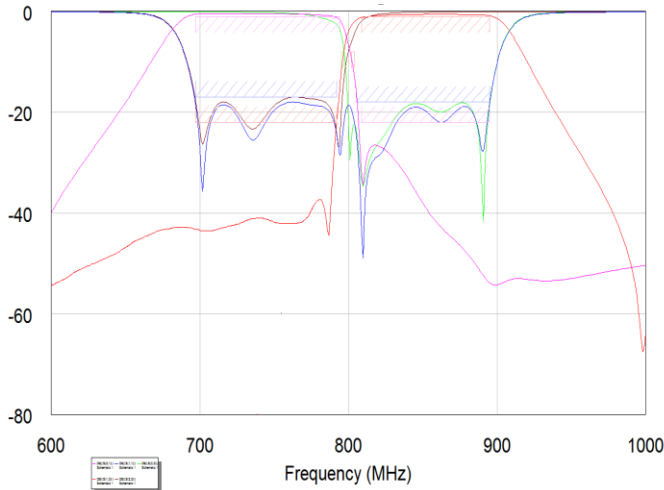
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## Mechanical Drawing

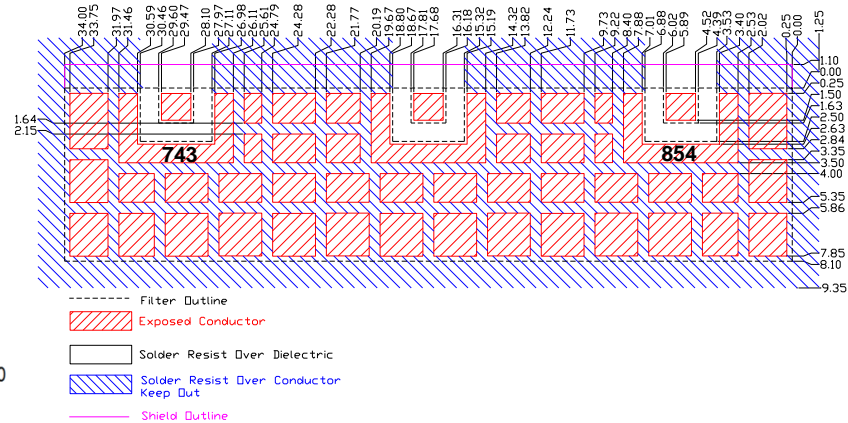


Dimension	Nominal (mm)	Tolerance (mm) +/-
A	31.67	max
B	8.10	max
C	1.63	0.13
D	0.86	0.13
E	0.86	0.13
F	15.84	0.13
G	15.84	0.13
H	7.60	max
I	1.63	0.13
J	9.20	max
K	11.79	0.13
M	11.79	0.13

## Electrical Response

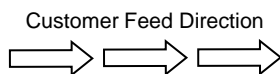


## PCB Layout

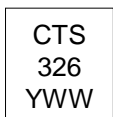


## Packaging and Marking

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



Product Marking



# TBD