

Features

- Low loss
- Flat Low Ripple

Description

Surface mount, silver (Ag) coated ceramic duplexer. Developed for use in DCS infrastructure applications.

Weight: 3.0 grams typical

Material: Filter is composed of a ceramic block plated 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 -40°C to +85°C
Low Band Response				
Passband loss	2500-2570	2.0 dB	2.8 dB max	3 dB max
Passband Return Loss @ Ant	2500-2570	14 dB	12.0 dB min	12.0 dB min
Passband Return Loss @ Port 2	2500-2570	14 dB	12.0 dB min	12.0 dB min
Passband Ripple	2500-2570	1.1 dB	1.5 dB max	1.5 dB max
Attenuation	2620-2690	47.0 dB	45.0 dB min	45.0 dB min
High Band Response				
Passband loss	2620-2690	2.0 dB	2.8 dB max	3 dB max
Passband Return Loss @ Ant	2620-2690	14 dB	12.0 dB min	12.0 dB min
Passband Return Loss @ Port 3	2620-2690	14 dB	12.0 dB min	12.0 dB min
Passband Ripple	2620-2690	1.1 dB	1.5 dB max	1.5 dB max
Attenuation	2500-2570	50 dB	45 dB min	45 dB min
Isolation				
Rejection @ Low Band	2500-2570	50 dB	45 dB min	45 dB min
Rejection @ High Band	2620-2690	47 dB	45 dB min	45 dB min
Power into any port			2 Watts max	

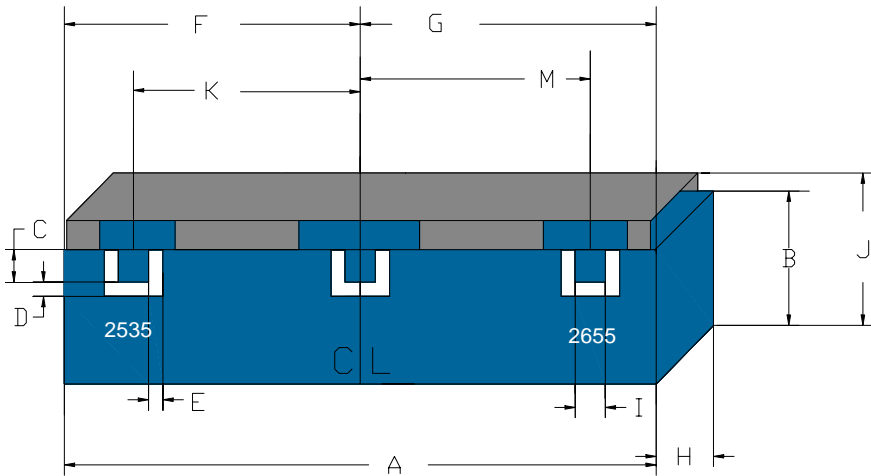
Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

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.

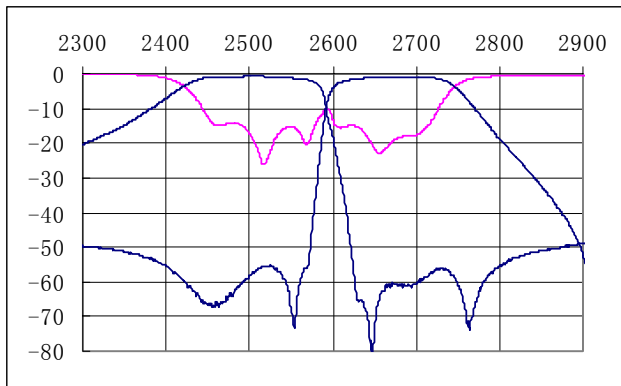
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Mechanical Drawing

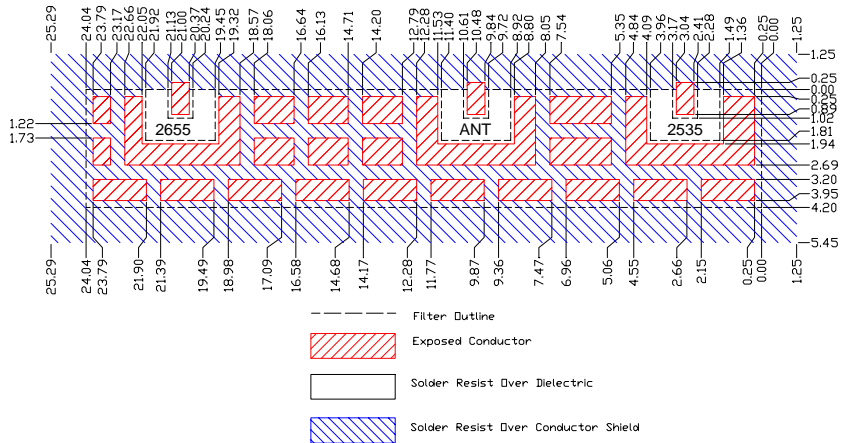


Dimension	Nominal (mm)	Tolerance (mm) +/-
A	24.04	0.27
B	4.11	max
C	1.02	0.13
D	0.79	0.13
E	0.79	0.13
F	10.16	0.13
G	13.88	0.13
H	4.60	max
I	0.89	0.13
J	5.22	max
K	7.44	0.13
M	10.52	0.13

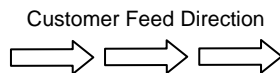
Electrical response



PCB Layout

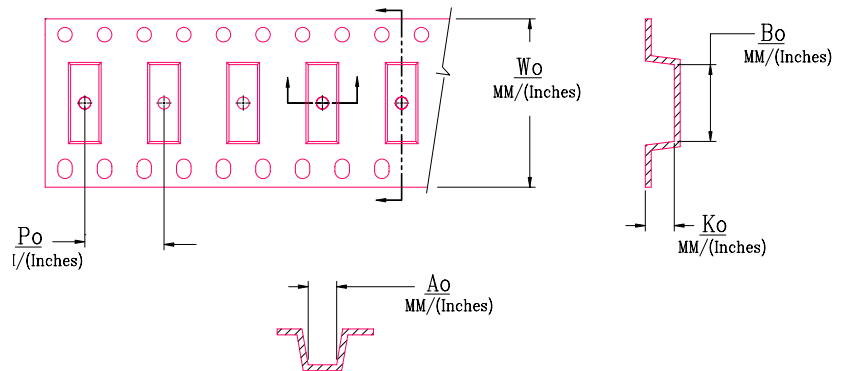


DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	2.3
REEL QUANTITY	ea.	500



Product Marking

CTS
118
YWW



Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
1.732/44.0	0.216/5.5	.13/28.7	0.204/5.18	0.472/12.00