

Features

- Low Insertion loss
- High rejection

Description

Surface mount, silver (Ag) coated ceramic duplexer.

Weight: Approximately TBD grams typical

Material: Filter is composed of a ceramic block plated with Ag and a shield made of tin 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 (S13)				
Passband Iloss	1518 - 1559	-1.7	-2.05	-2.20
Passband Ripple	1518 - 1559	0.6	0.90	1.00
Passband Return Loss @ Port 3	1518 - 1559	-15	-12.00	-12.00
Passband Return Loss @ Ant	1518 - 1559	-15	-12.00	-12.00
Attenuation	1626.5 - 1675	-60	-55.00	-55.00
High Band Response (S21)				
Passband Iloss	1626.5 - 1675	-1.8	-2.15	-2.30
Passband Ripple	1626.5 - 1675	0.8	1.00	1.10
Passband Return Loss @ Port 2	1626.5 - 1675	-15	-11.00	-11.00
Passband Return Loss @ Ant	1626.5 - 1675	-15	-11.00	-11.00
Attenuation	1518 - 1559	-60	55.00	55.00
Isolation(S23)				
Rejection @ Low Band	1525 - 1559	-60	-55.00	-55.00
Rejection @ High Band	1626.5 - 1675	-60	-55.00	-55.00
Power Into any Port		3 Watt max		

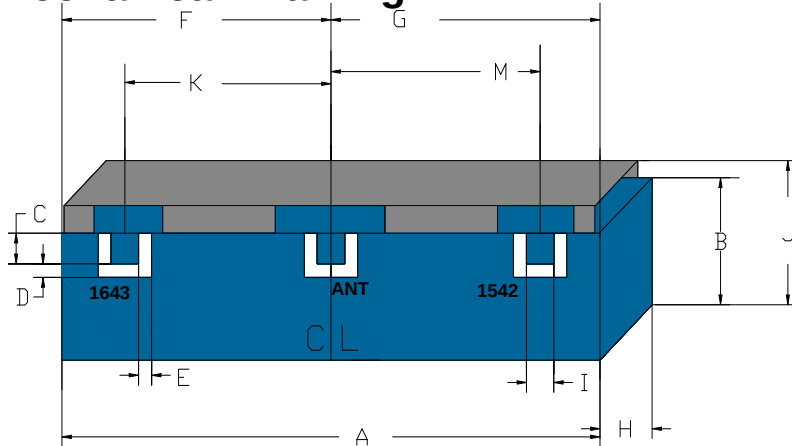
Note: Supplier shall test each filter to the critical electrical specifications of the above table. Any subsequent audits may deviate from in value due to measurement repeatability among different test systems. Such deviations shall not exceed the following limits:

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.

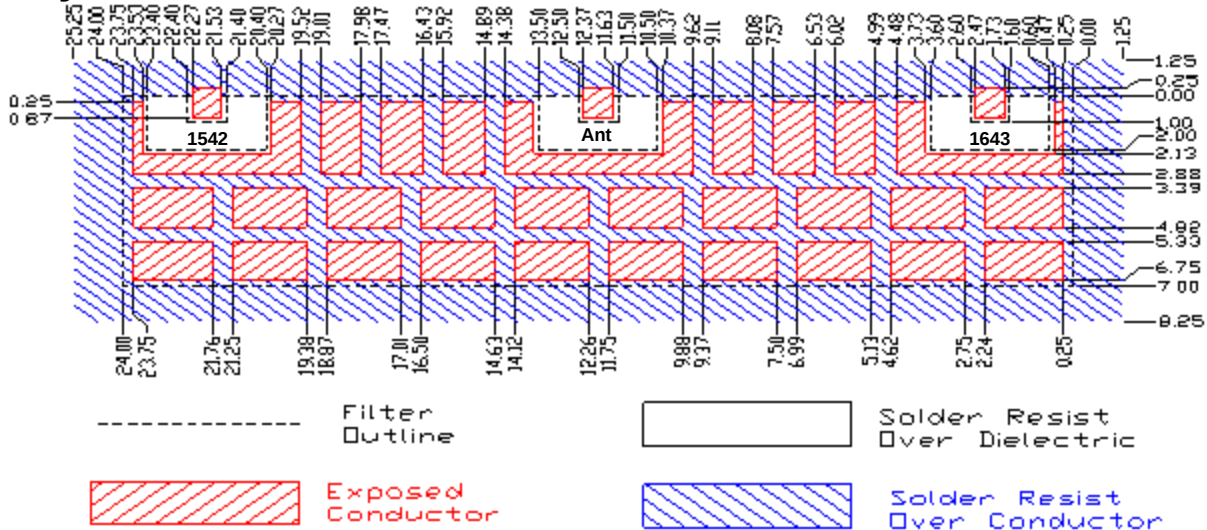
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Mechanical Drawing



Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	24.00	max
B	7.00	max
C	1.02	0.13
D	1.02	0.25
E	1.02	0.13
F	11.87	0.13
G	11.87	0.13
H	4.60	max
I	1.02	0.13
J	8.00	max
K	9.90	0.13
M	9.90	0.13

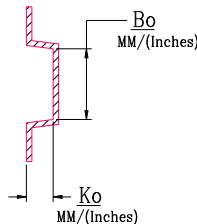
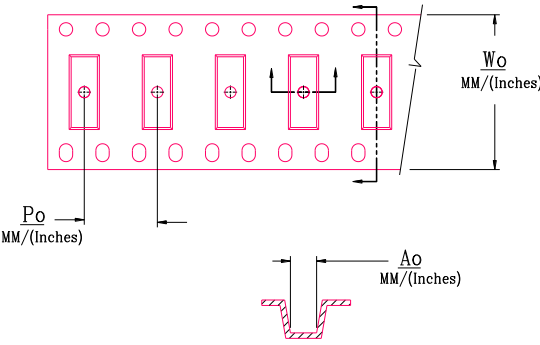
PCB Layout



Packaging and Marking

Customer Feed Direction

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



CTS
45E
YWW

Wo	Ao	Bo	Ko	Po
Inches/mm	Inches/mm	Inches/mm	Inches/mm	Inches/mm
1.732" / 44.0	0.329" / 8.53	0.960" / 24.35	0.195" / 4.95	0.472" / 12.0

Electrical response

