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CER0644A

1797.5 MHz Duplexer

Revision B - Origin Date: September 12, 2009 – Revision Date: July 27, 2011

Features

- Low Insertion Loss
- Low Ripple
- Excellent Rejection and Isolation

Description

Surface mount, silver (Ag) coated ceramic duplexer. Developed for use in 1770 MHz Infrastructure Applications.

Weight: TBD 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	1745 - 1755	-2.30	-2.40	-2.50
Passband Ripple	1745 - 1755	0.90	1.40	1.50
Passband Return Loss @ Ant	1745 - 1755	-13.00	-12.00	-12.00
Passband Return Loss @ Low Band	1745 - 1755	-13.00	-12.00	-12.00
Attenuation	1840 - 1850	-60.00	-55.00	-55.00
	3490 - 3510	-11.00	-10.00	-10.00
High Band Response				
Passband Iloss	1840 - 1850	-2.30	-2.40	-2.50
Passband Ripple	1840 - 1850	1.00	1.40	1.50
Passband Return Loss @ Ant	1840 - 1850	-13.00	-12.00	-12.00
Passband Return Loss @ High Band	1840 - 1850	-13.00	-12.00	-12.00
Attenuation	1745 - 1755	-60.00	-55.00	-55.00
	3680 - 3700	-19.00	-15.00	-15.00
Isolation				
Rejection @ Low Band	1745 - 1755	-61.00	-60.00	-60.00
Rejection @ midpoint	1755 - 1840	-51.00	-50.00	-50.00
Rejection @ High Band	1840 - 1850	-61.00	-60.00	-60.00
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;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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Document No. 008-0256-0

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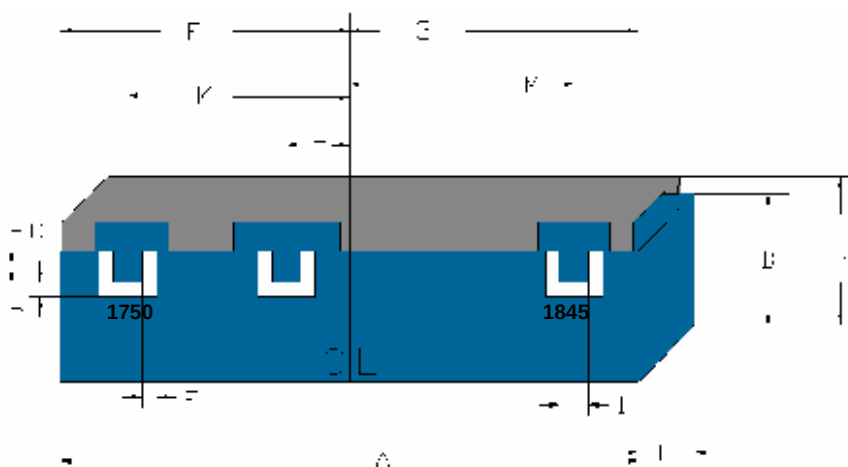
CTS®

CER0644A

1797.5 MHz Duplexer

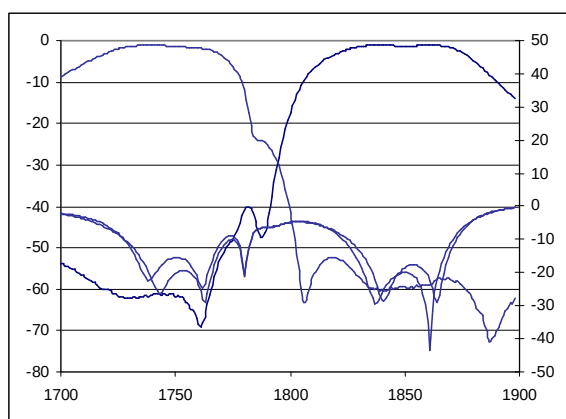
Mechanical Drawing

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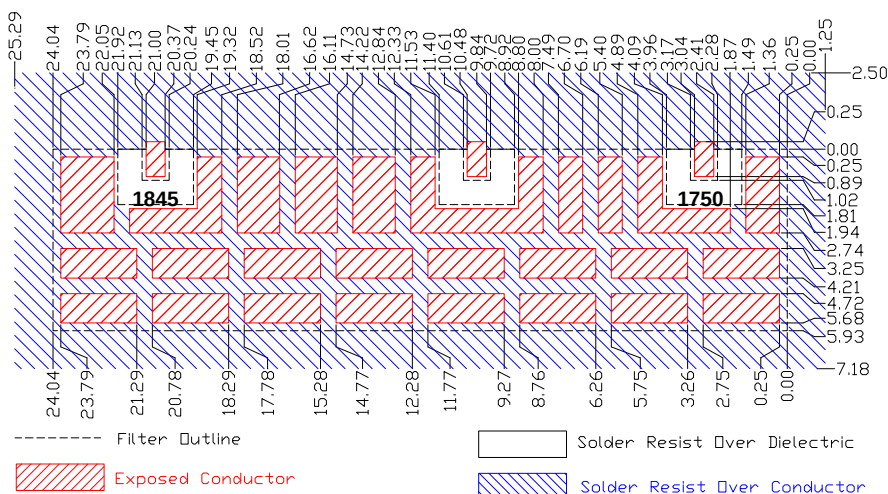


A	24.04	0.27
B	5.93	max
C	1.02	0.13
D	0.79	0.13
E	0.79	0.13
F	12.02	0.13
G	12.02	0.13
H	4.60	max
I	0.89	0.13
J	7.04	max
K	9.30	0.13
M	8.66	0.13
L	1.86	0.13

Electrical Response

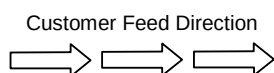


PCB Layout

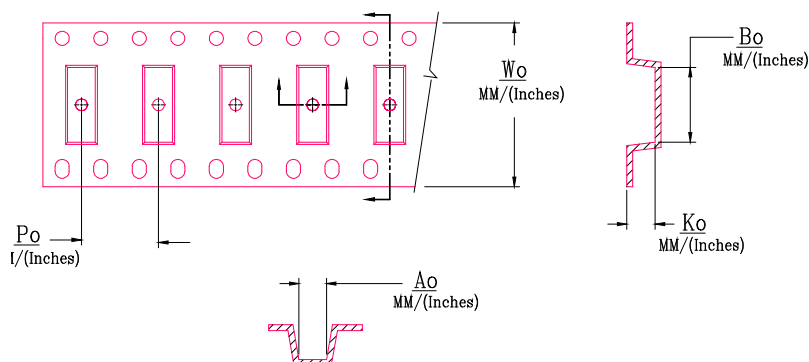
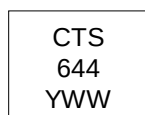


Packaging and Marking

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



Product Marking



Wo Inches/mm	Ao Inches/mm	Bo Inches/mm	Ko Inches/mm	Po Inches/mm
1.732/44.0	0.2823"/7.17	0.974"/24.74	0.195"/4.95	0.472"/12