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CTS Electronic Components
CER0789A

For any questions, you can email us directly:
sales@integrated-circuit.com

Distributor of CTS Electronic Components: Excellent Integrated System Limited
Datasheet of CER0789A - CERAMIC FILTER
Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

CER0789A

2.437 GHz BPF

Revision A – Origin Date: June 9, 2011 – Revision Date: June 9, 2011

Features

- High Rejection
- Low ripple

Description

Surface mount, silver (Ag) coated barium ceramic filter.

Weight: 2.5 grams typical

Material: Filter is composed of a ceramic block plated with Ag.

Filter complies with RoHS standards.

Electrical Specifications

Parameter	Frequency MHz	Typical @ 25ºC	Specification @ 25ºC	Spec over -40ºC to +85ºC
Response				
Passband Iloss	2404 - 2470	-2.90	-3.10	-3.40
Passband Ripple	2404 - 2470	1.30	1.40	1.50
Passband Return Loss @ Port 1	2404 - 2470	-13.40	-12.00	-12.00
Passband Return Loss @ Port 2	2404 - 2470	-13.40	-12.00	-12.00
Attneuation	0.1 - 2325	-51.00	-45.00	-45.00
	2390	-19.00	-15.00	-15.00
	2483.5	-19.40	-15.00	-15.00
Power into any port		1 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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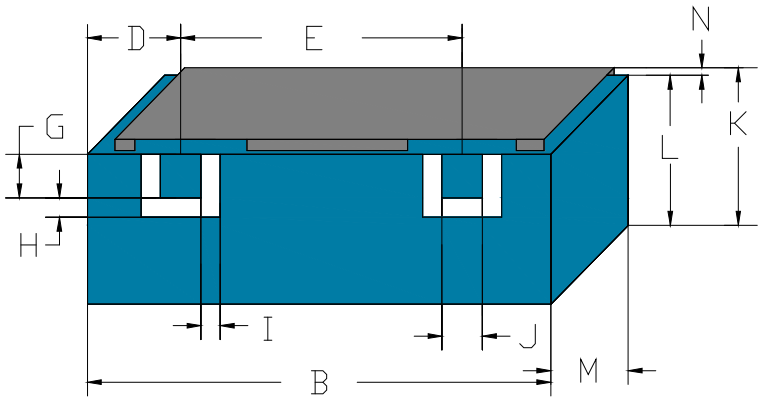
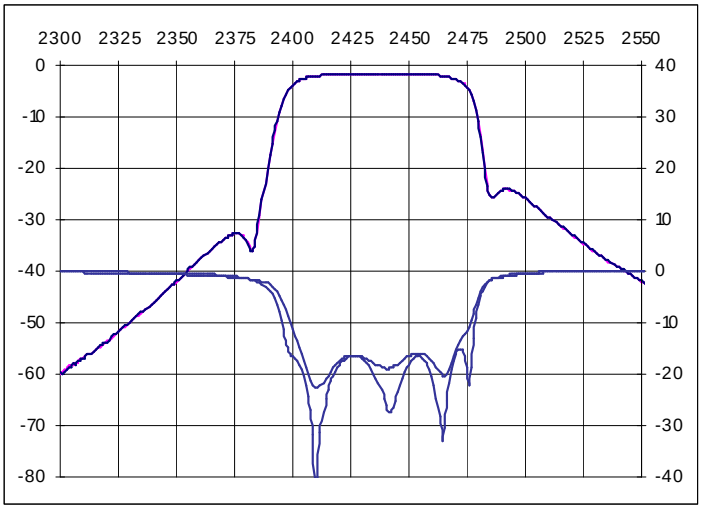
Mechanical Drawing

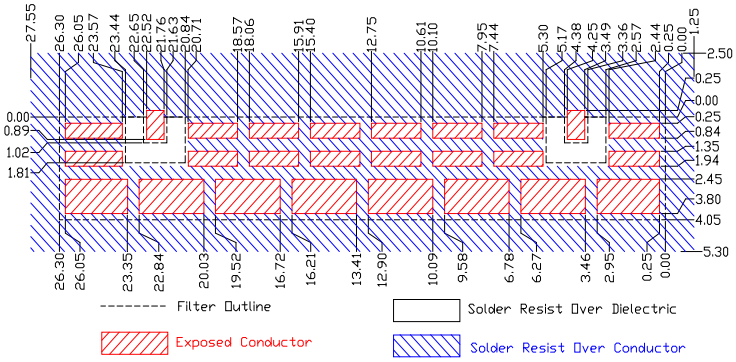


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A		
B	26.3	max
C		
D	3.87	0.25
E	18.27	0.13
F		
G	1.02	0.13
H	0.79	0.13
I	0.79	0.13
J	1.02	0.13
K	5.0	max
L	4.05	max
M	4.8	max
N	0.76	0.13

Electrical response



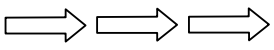
PCB Layout



Packaging and Marking

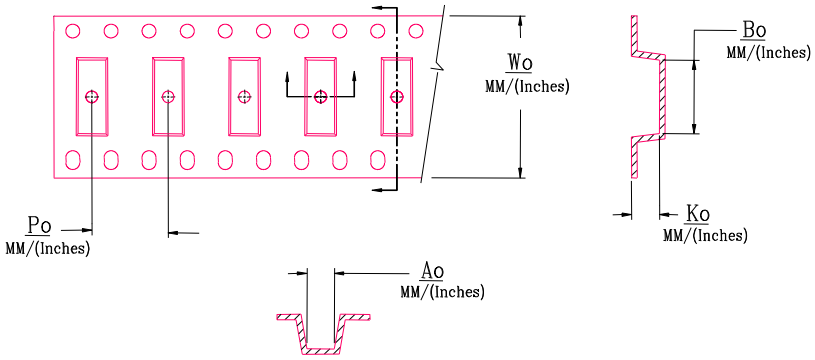
DIMENISION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REELWEIGHT	kg	2.7
REEL QUANTITY	ea.	500

Customer Feed Direction



Product Marking

CTS
789
YWW



Wo Inches/mm	Ao Inches/mm	Bo Inches/mm	Ko Inches/mm	Po Inches/mm
1.732" / 44.0	0.209" / 5.3	1.055" / 26.8	0.197" / 5.0	0.472" / 12.0