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CER0241C

942.5 Mhz EGSM BPF

Rev 3 – Origin Date: March 6, 2006 – Revision Date: August 30, 2007

Features

- Low Loss
- Low Ripple
- High Rejection

Description

Surface mount, silver (Ag) coated ceramic duplexer. Developed for use in 800 MHz subscriber and infrastructure applications.

Weight: 3.9 grams typical

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

Filter complies with RoHS standards.



Electrical Specifications

Parameter	Frequency (MHz)	Typical @25°C	Spec. @ 25°C	Spec. over -40°C to + 85°C
Pass band Insertion Loss	925-960	3.0 dB	4.5 dB	5.0 dB
Pass band Ripple	925-960	0.35 dB	0.5 dB	0.5 dB
Pass band Return Loss	925-960	13.5 dB	12.0 dB	12.0 dB
Rejection	0.1 - 890	23.0 dB	20.0 dB	20.0 dB
	990 - 1900	20.0 dB	18.0 dB	18.0 dB
	1900 - 2170	11.5 dB	8.0 dB	8.0 dB
Power into any port		1.0 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

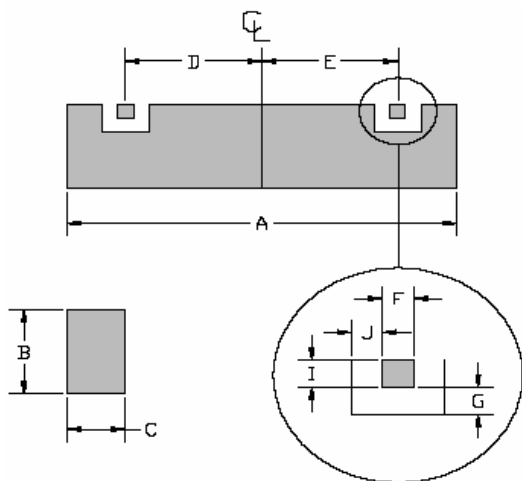
Insertion Loss	0.1 dB
Return Loss	1.0 dB
Stopbands	1.0 dB

*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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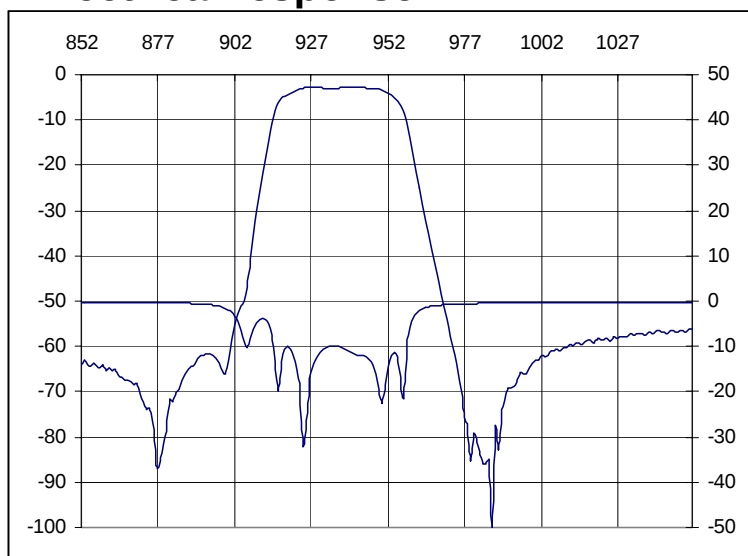
Mechanical Drawing

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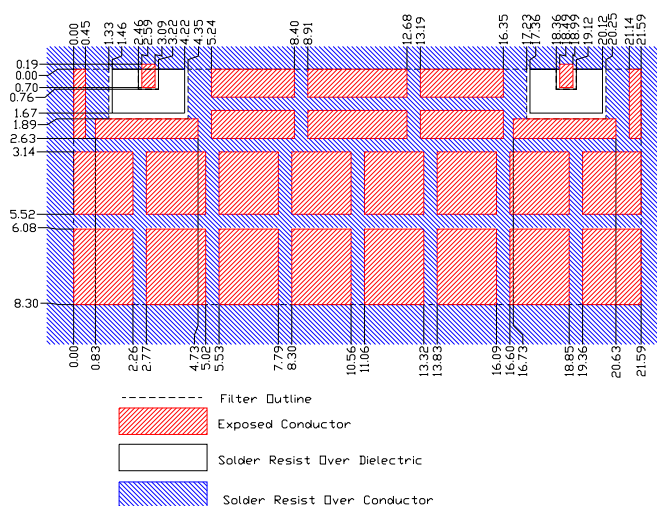


Dim	Nominal (mm)	Tolerance (mm) +/- or max
A	21.54	max
B	8.3	max
C	4.00	max
D	7.95	0.25
E	7.95	0.25
F	0.76	0.13
G	1.00	0.13
H		
I	0.76	0.13
J	1.0	0.13

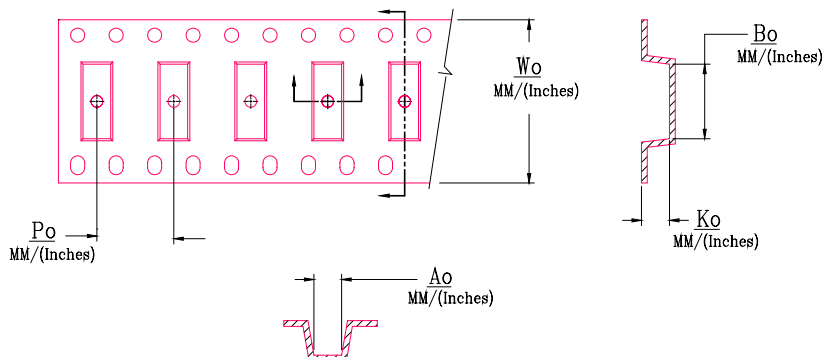
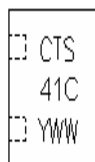
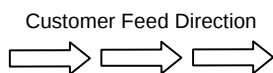
Electrical response



PCB Layout



Packaging and Marking



DIMENSION	UNITS	SPECIFICATION
REEL DIAMETER	mm	330
REEL WEIGHT	kg	2.7
REEL QUANTITY	ea.	500

MODEL NO.	Wo	Ao	Bo	Ko	Po
CER0241	44.0/(1.732)	9.91/(0.390)	21.97/(0.865)	4.19/(0.165)	16.0/(0.630)