



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





RF Filters for Cellular Phones

Series/Type: B4121

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39941B4121U510	B39941B4124U410	2009-04-03	2009-07-15	2009-10-15

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.

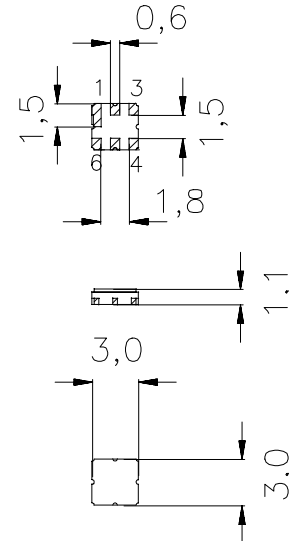
Data Sheet

 Ceramic package **DCC6D**
Features

- Low-loss RF filter for mobile telephone EGSM systems, receive path
- Low amplitude ripple
- Usable passband 35 MHz
- Unbalanced to balanced operation
- Impedance transformation from 50 Ω to 150 Ω
- Ceramic package for **Surface Mounted Technology (SMT)**

Terminals

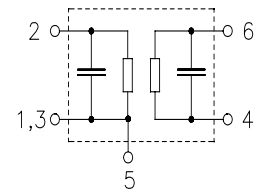
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

- | | |
|---------|-------------------|
| 2 | Input, unbalanced |
| 1, 3 | Input ground |
| 4, 6 | Output, balanced |
| 5 | To be grounded |
| 1, 3, 5 | Case ground |



Type	Ordering code	Marking and Package according to	Packing according to
B4121	B39941-B4121-U510	C61157-A7-A68	F61074-V8089-Z000

Electrostatic Sensitive Device (ESD)
Maximum ratings

Operable temperature range	T	- 40 / + 85	°C	source impedance 50 Ω, load impedance 150 Ω, CW input for min. 2000 h
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	V_{DC}	3	V	
Input power max.	P_{IN}			
880 ... 915 MHz		18	dBm	
1705 ... 1785 MHz		18	dBm	


Characteristics

Operating temperature range:	$T = 25 \pm 2 \text{ } ^\circ\text{C}$
Terminating source impedance:	$Z_S = 50 \text{ } \Omega$
Terminating load impedance:	$Z_L = 150 \text{ } \Omega \parallel 80 \text{ nH}$

				min.	typ.	max.	
Center frequency		f_C		—	942,5	—	MHz
Maximum insertion attenuation	925,0 ... 960,0	MHz	α_{\max}	—	2,8	3,2	dB
Amplitude ripple (p-p)	925,0 ... 960,0	MHz	$\Delta\alpha$	—	1,0	1,4	dB
Attenuation			α				
	0,0 ... 600,0	MHz		60	70	—	dB
	600,0 ... 880,0	MHz		50	55	—	dB
	880,0 ... 905,0	MHz		30	38	—	dB
	905,0 ... 915,0	MHz		18	23	—	dB
	980,0 ... 1000,0	MHz		21	23	—	dB
	1000,0 ... 1025,0	MHz		30	37	—	dB
	1025,0 ... 1050,0	MHz		35	40	—	dB
	1050,0 ... 1500,0	MHz		50	57	—	dB
	1500,0 ... 2130,0	MHz		45	55	—	dB
	2130,0 ... 3000,0	MHz		40	48	—	dB
	3000,0 ... 4050,0	MHz		35	41	—	dB
	4050,0 ... 5700,0	MHz		23	30	—	dB
Symmetry in band (referenced to the matched operating condition)							
	$ S_{31} / S_{21} $	925,0 ... 960,0	MHz	-1,8	0	1,2	dB
	$\arg(S_{31}/S_{21})$	925,0 ... 960,0	MHz	170	180	192	$^\circ$


Characteristics

Operating temperature range:	$T = -10 \text{ to } +75 \text{ }^\circ\text{C}$
Terminating source impedance:	$Z_S = 50 \text{ } \Omega$
Terminating load impedance:	$Z_L = 150 \text{ } \Omega \parallel 80 \text{ nH}$

				min.	typ.	max.	
Center frequency		f_C		—	942,5	—	MHz
Maximum insertion attenuation		α_{\max}		—	3,0	3,8	dB
	925,0 ... 960,0	MHz					
Amplitude ripple (p-p)		$\Delta\alpha$		—	1,2	2,0	dB
	925,0 ... 960,0	MHz					
Attenuation		α					
	0,0 ... 600,0	MHz		60	70	—	dB
	600,0 ... 880,0	MHz		50	55	—	dB
	880,0 ... 905,0	MHz		28	33	—	dB
	905,0 ... 915,0	MHz		18	21	—	dB
	980,0 ... 1000,0	MHz		20	22	—	dB
	1000,0 ... 1025,0	MHz		30	37	—	dB
	1025,0 ... 1050,0	MHz		35	40	—	dB
	1050,0 ... 1500,0	MHz		50	57	—	dB
	1500,0 ... 2130,0	MHz		45	55	—	dB
	2130,0 ... 3000,0	MHz		40	48	—	dB
	3000,0 ... 4050,0	MHz		35	41	—	dB
	4050,0 ... 5700,0	MHz		23	30	—	dB
Symmetry in band	(referenced to the matched operating condition)						
	$ S_{31} / S_{21} $	925,0 ... 960,0	MHz	-2,3	0	1,2	dB
	$\arg(S_{31}/S_{21})$	925,0 ... 960,0	MHz	170	180	192	°

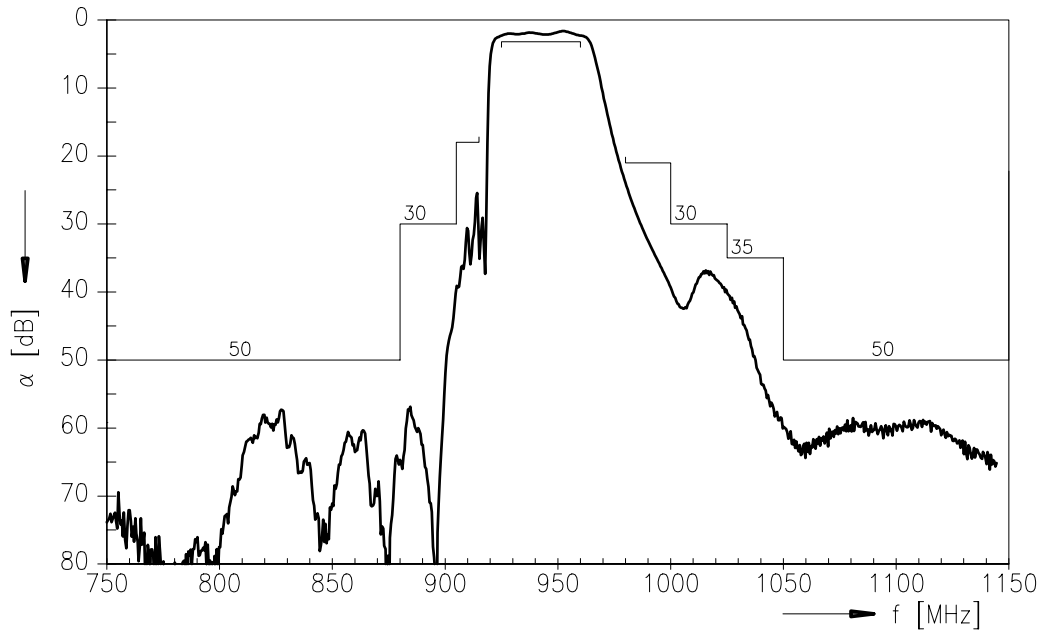

Characteristics

Operating temperature range:	$T = -40$ to $+85$ °C
Terminating source impedance:	$Z_S = 50$ Ω
Terminating load impedance:	$Z_L = 150$ Ω 80 nH

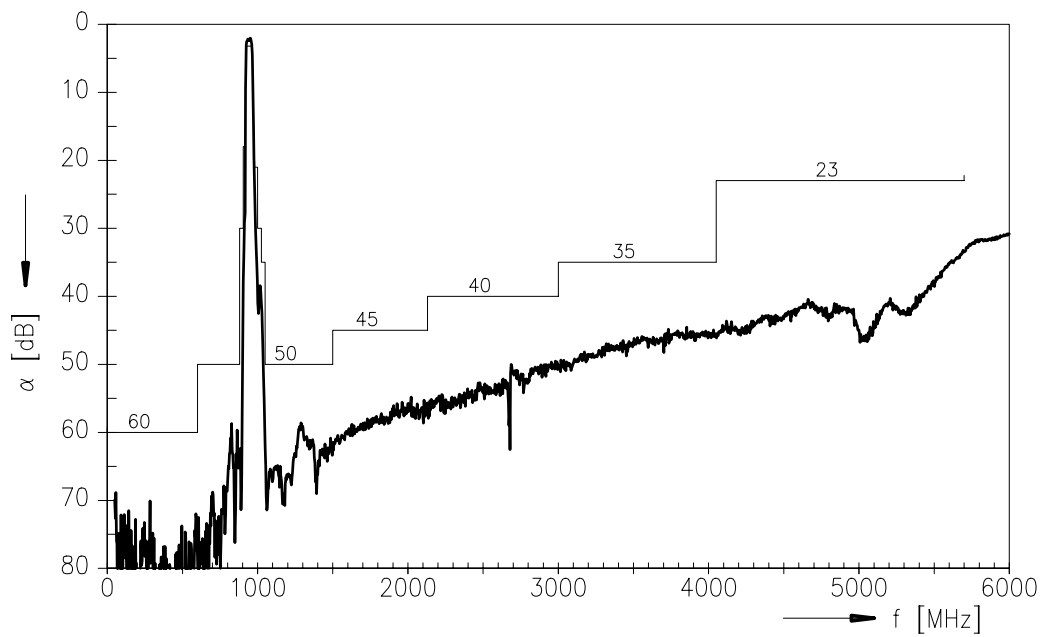
				min.	typ.	max.	
Center frequency		f_C		—	942,5	—	MHz
Maximum insertion attenuation		α_{\max}		—	3,4	4,2	dB
	925,0 ... 960,0	MHz					
Amplitude ripple (p-p)		$\Delta\alpha$		—	1,8	2,6	dB
	925,0 ... 960,0	MHz					
Attenuation		α					
	0,0 ... 600,0	MHz		60	70	—	dB
	600,0 ... 880,0	MHz		50	55	—	dB
	880,0 ... 905,0	MHz		28	33	—	dB
	905,0 ... 915,0	MHz		18	21	—	dB
	980,0 ... 1000,0	MHz		19	21	—	dB
	1000,0 ... 1025,0	MHz		30	37	—	dB
	1025,0 ... 1050,0	MHz		35	40	—	dB
	1050,0 ... 1500,0	MHz		50	57	—	dB
	1500,0 ... 2130,0	MHz		45	55	—	dB
	2130,0 ... 3000,0	MHz		40	48	—	dB
	3000,0 ... 4050,0	MHz		35	41	—	dB
	4050,0 ... 5700,0	MHz		23	30	—	dB
Symmetry in band							
(referenced to the matched operating condition)							
	$ S_{31} / S_{21} $	925,0 ... 960,0	MHz	-2,6	0	1,2	dB
	$\arg(S_{31}/S_{21})$	925,0 ... 960,0	MHz	170	180	192	°



Transfer function (spec at 25 °C)



Transfer function (wideband)



**Published by EPCOS AG****Surface Acoustic Wave Components Division, SAW MC WT****P.O. Box 80 17 09, 81617 Munich, GERMANY**

© EPCOS AG 2002. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.