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!

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

SAW filters for infrastructure systems

Series/Type: B3865

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39241B3865H510		2012-01-13	2012-12-31	2013-03-30

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.

EPCOS AG is a TDK Group Company.

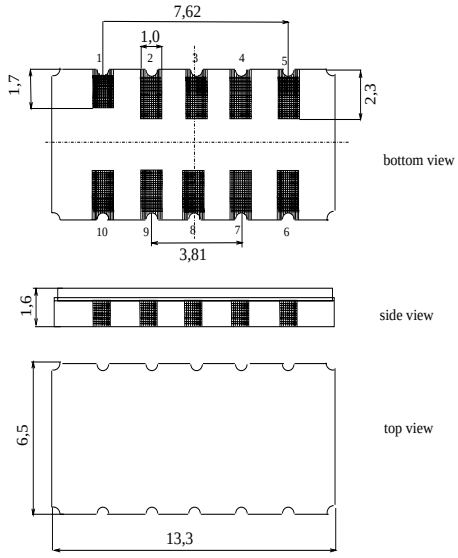
Ceramic package **DCC12A**

Features

- High performance IF bandpass filter
- Temperature stable
- Hermetically sealed ceramic package

Terminals

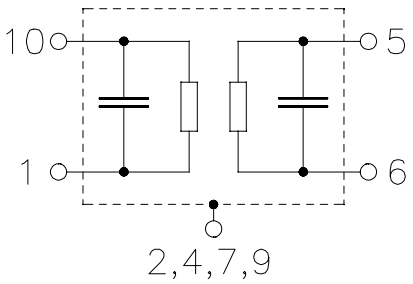
- Gold plated



Dimensions in mm, approx. weight 0,44 g

Pin configuration

10	Input
1	Input ground
5	Output
6	Output ground
3, 8	Ground
2, 4, 7, 9	Case ground



Type	Ordering code	Marking and Package according to	Packing according to
B3865	B39241-B3865-H510	C61157-A7-A94	F61074-V8163-Z000

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T	-40/ +85	˚C
Storage temperature range	T_{stg}	-40/ +85	˚C
DC voltage	V_{DC}	0	V
Source power	P_s	0	dBm

Data Sheet

Characteristics

Operating temperature range: T = -10 .. 85˚C

Terminating source impedance: Z_S=50 Ω and matching network

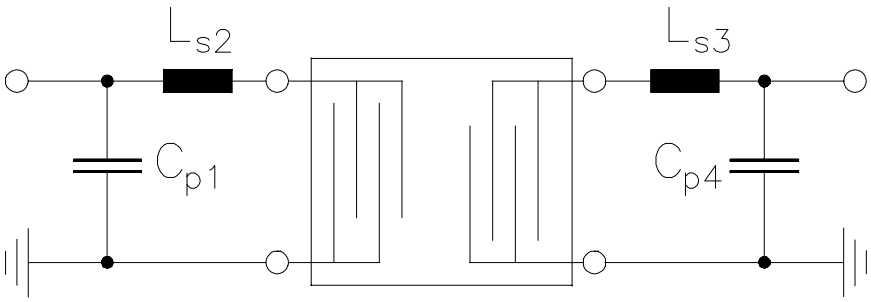
Terminating load impedance: Z_S=50 Ω and matching network

			min.	typ.	max.	
Nominal frequency		f_N	—	240,0	—	MHz
Minimum insertion attenuation (including matching network)		α_{min}	12,0	14,0	16,0	dB
Passband width	$\alpha_{rel} \leq 1$ dB	B_{1dB}	3,6	4,0	—	MHz
Amplitude ripple (p-p)		$\Delta\alpha$				
	$f_N \pm$ 1,8 MHz		—	0,8	1,1	dB
Absolute group delay (at f_N)		τ	—	1,07	2,5	µs
Group delay ripple (p-p)		$\Delta\tau$				
	$f_N \pm$ 1,7 MHz		—	150	200	ns
	$f_N \pm$ 1,8 MHz		—	150	300	ns
Deviation of linear phase (p-p)		$\Delta\varphi$				
	$f_N \pm$ 1,8 MHz		—	4	6	˚
Relative attenuation (relative to α_{min})		α_{rel}				
$f_N \pm$ 2,13 MHz ...	$f_N \pm$ 2,5 MHz		5	8	—	dB
$f_N \pm$ 2,5 MHz ...	$f_N \pm$ 2,93 MHz		13	16	—	dB
$f_N \pm$ 2,93 MHz ...	$f_N \pm$ 3,3 MHz		24	27	—	dB
$f_N -$ 5,0 MHz ...	$f_N -$ 3,3 MHz		35	38	—	dB
$f_N -$ 70 MHz ...	$f_N -$ 5,0 MHz		40	43	—	dB
$f_N +$ 3,3 MHz ...	$f_N +$ 3,7 MHz		32	35	—	dB
$f_N +$ 3,7 MHz ...	$f_N +$ 5,0 MHz		35	38	—	dB
$f_N +$ 5,0 MHz ...	$f_N +$ 5,4 MHz		38	40	—	dB
$f_N +$ 5,4 MHz ...	$f_N +$ 70 MHz		40	43	—	dB
Input and output return loss			12	15	—	dB
Temperature coefficient of frequency [1]		TC_f	—	– 0,036	—	ppm/K²
Turnover temperature		T_0	—	40	—	˚C

[1] Temperature dependance of f_c: $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$

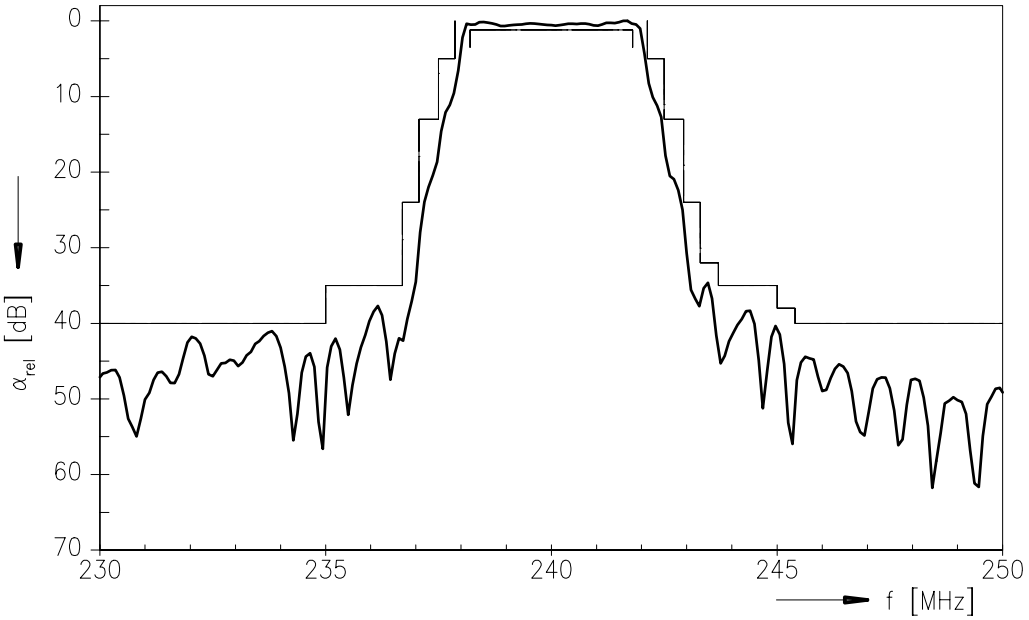
Matching network to 50 Ω

(Element values depend upon PCB layout)

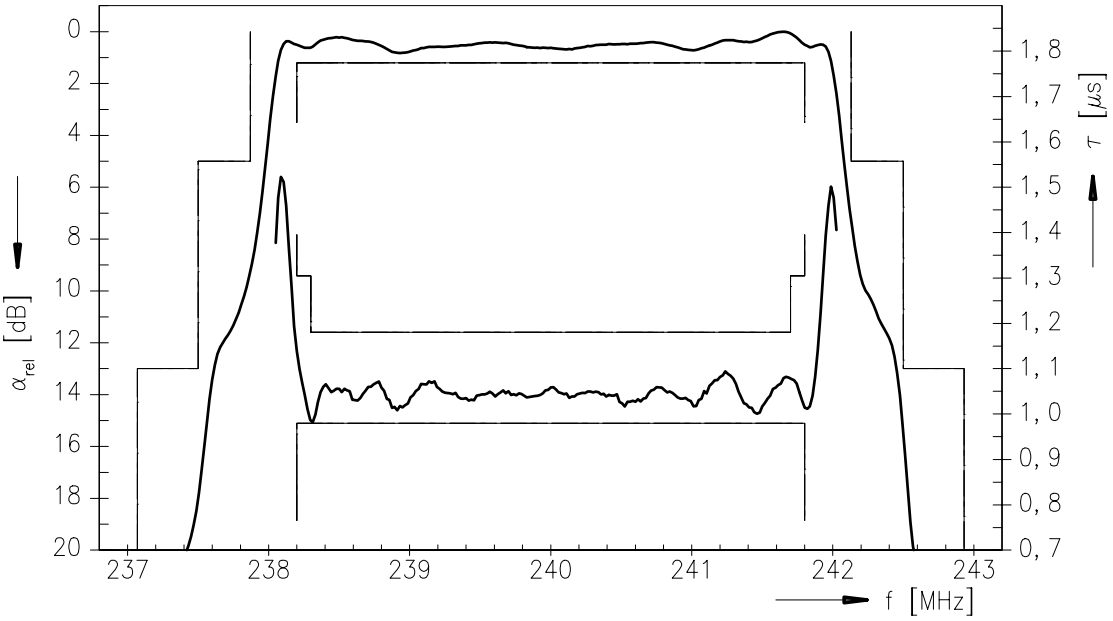


C_{p1} = 38,6 pF
L_{s2} = 42 nH
L_{s3} = 39 nH
C_{p4} = 36,9 pF

Normalized frequency response



Normalized frequency response (pass band)



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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.

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