



## RF Filters for Cordless Phones

**Series/Type:**        **B4052**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39451B4052U410		2004-05-19	2004-09-30	2004-12-31

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](http://www.epcos.com/sales).



## Withdrawn Products

The following products presented in this data sheet are being withdrawn:

B39451B4052U410

Date of withdrawal: 19-MAY-04

Deadline for last orders: 30-SEP-04

Last shipments: 31-DEC-04

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of the sales offices are given on the Internet at [www.epcos.com/sales](http://www.epcos.com/sales).



# SAW Components

Data Sheet B4052

Data Sheet

A large, stylized, 3D-rendered graphic of the word "EPCOS" in a light gray, sans-serif font. The letters are tilted and appear to be floating or emerging from a dark, textured background that resembles a globe or a complex circuit board. The overall effect is a sense of depth and modernity.



## SAW Components

B4052

## Low-Loss Filter for Mobile Communication

447,0 MHz

### Data Sheet



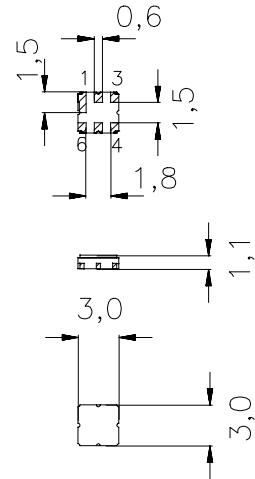
Ceramic package **DCC6C**

### Features

- Low loss RF filter for family radio system
- Low amplitude ripple
- High image frequency suppression
- No matching network required for operation at 50  $\Omega$
- Ceramic package for **Surface Mounted Technology (SMT)**

### Terminals

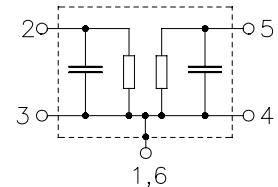
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

### Pin configuration

2	Input
3	Input - ground
5	Output
4	Output - ground
1,6	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B4052	B39451-B4052-U410	C61157-A7-A67	F61074-V8088-Z000

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

### Maximum ratings

Operable temperature range	$T$	- 30/+ 70	$^{\circ}\text{C}$	Source impedance 50 $\Omega$
Storage temperature range	$T_{\text{stg}}$	- 40/+ 85	$^{\circ}\text{C}$	
DC voltage	$V_{\text{DC}}$	0	V	
Input power	$P_{\text{IN}}$	10	dBm	



# SAW Components

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## Low-Loss Filter for Mobile Communication

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### Characteristics

Operating temperature range:  $T = -30$  to  $+70$  °C  
Terminating source impedance:  $Z_S = 50 \Omega$   
Terminating load impedance:  $Z_L = 50 \Omega$

		min.	typ.	max.	
<b>Center frequency</b>	$f_c$	—	447,0	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$	—	3,4	3,8	dB
444,00 ... 450,00 MHz					
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	—	1,3	1,8	dB
444,00 ... 450,00 MHz					
<b>Attenuation</b>	$\alpha_{\min}$				
100,00 ... 407,20 MHz		52,0	62,0	—	dB
407,20 ... 433,30 MHz		42,0	50,0	—	dB
433,30 ... 439,30 MHz		20,0	26,0	—	dB
467,00 ... 484,00 MHz		20,0	30,0	—	dB
484,00 ... 1000,00 MHz		45,0	55,0	—	dB



SAW Components

B4052

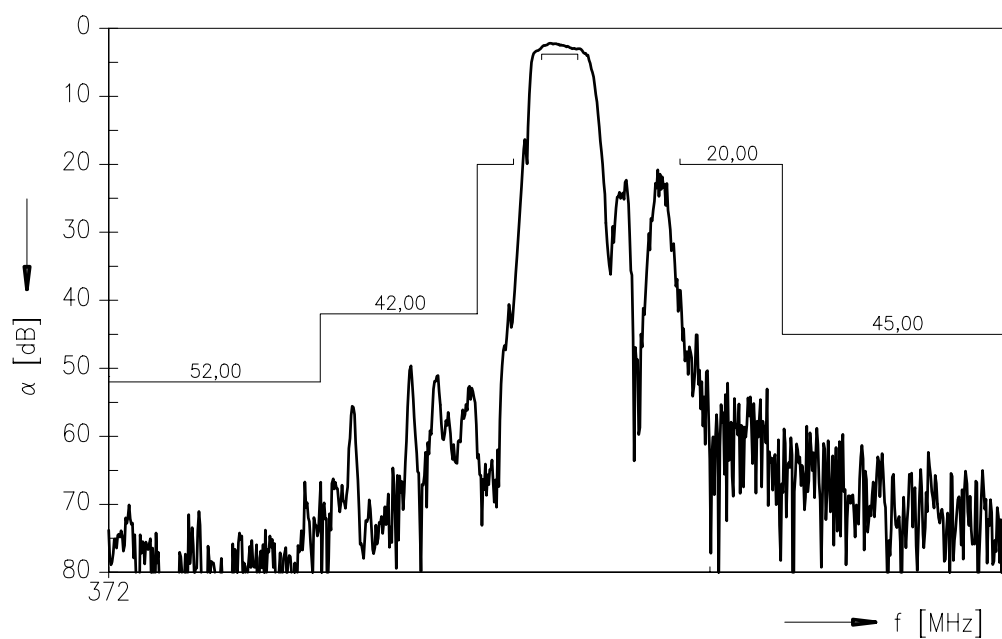
Low-Loss Filter for Mobile Communication

447,0 MHz

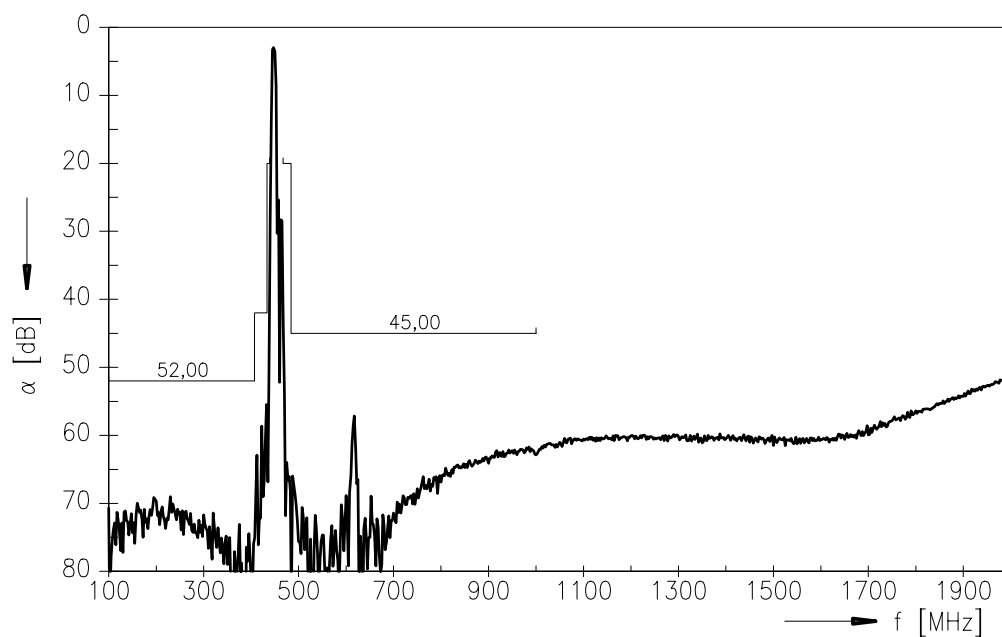
Data Sheet



Transfer function :



Transfer function (wideband) :





<b>SAW Components</b>	<b>B4052</b>
<b>Low-Loss Filter for Mobile Communication</b>	<b>447,0 MHz</b>
<b>Data Sheet</b>	<b>SMD</b>

**Published by EPCOS AG**  
**Surface Acoustic Wave Components Division, OFW E MF**  
**P.O. Box 80 17 09, D-81617 München**

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