



## RF Filters for Cordless Phones

**Series/Type:**        **B4039**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39431B4039Z610		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## Withdrawn Products

The following products presented in this data sheet are being withdrawn:

B39431B4039Z610

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).



Siemens Matsushita Components

# SAW Components

## Low Loss Filter for Mobile Communication

**B4039**  
**433,91 MHz**

### Data Sheet

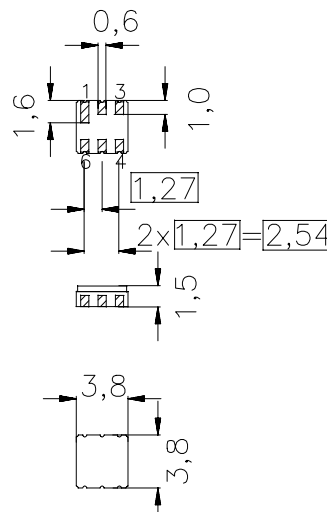
#### Features

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

#### Terminals

- Ni, gold-plated

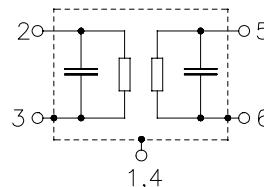
Ceramic package DCC6



Dimensions in mm, approx. weight 0,13 g

#### Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B4039	B39431-B4039-Z610	C61157-A7-A41	F61074-V8030-Z000

Electrostatic Sensitive Device (ESD)

#### Maximum ratings

Operable temperature range	$T$	-20 / +60	$^{\circ}\text{C}$
Storage temperature range	$T_{\text{stg}}$	-40 / +85	$^{\circ}\text{C}$
DC voltage	$V_{\text{DC}}$	0	V
Source power	$P_s$	10	dBm



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#### Characteristics

Operating temperature range:  $T = -20$  to  $+60$  °C  
Terminating source impedance:  $Z_S = 50 \Omega$   
Terminating load impedance:  $Z_L = 50 \Omega$

		min.	typ.	max.	
<b>Center frequency</b>	$f_c$	—	433,91	—	MHz
<b>Maximum insertion attenuation</b> 432,975 ... 434,850 MHz	$\alpha_{\max}$	—	2,2	2,8	dB
<b>Amplitude ripple (p-p)</b> 432,975 ... 434,850 MHz	$\Delta\alpha$	—	0,3	1,0	dB
<b>Attenuation</b> 330,00 ... 389,00 MHz 389,00 ... 392,00 MHz 392,00 ... 423,90 MHz 495,00 ... 530,00 MHz	$\alpha_{\min}$	52,0 57,0 11,0 52,0	60,0 70,0 13,0 60,0	— — — —	dB dB dB dB
<b>Impedance at 433,91 MHz</b> Input: $Z_{IN} = R_{IN} \parallel C_{IN}$ Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		— —	50 $\parallel$ 0,5 50 $\parallel$ 0,5	— —	$\Omega \parallel \text{pF}$ $\Omega \parallel \text{pF}$
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-70	—	ppm/K



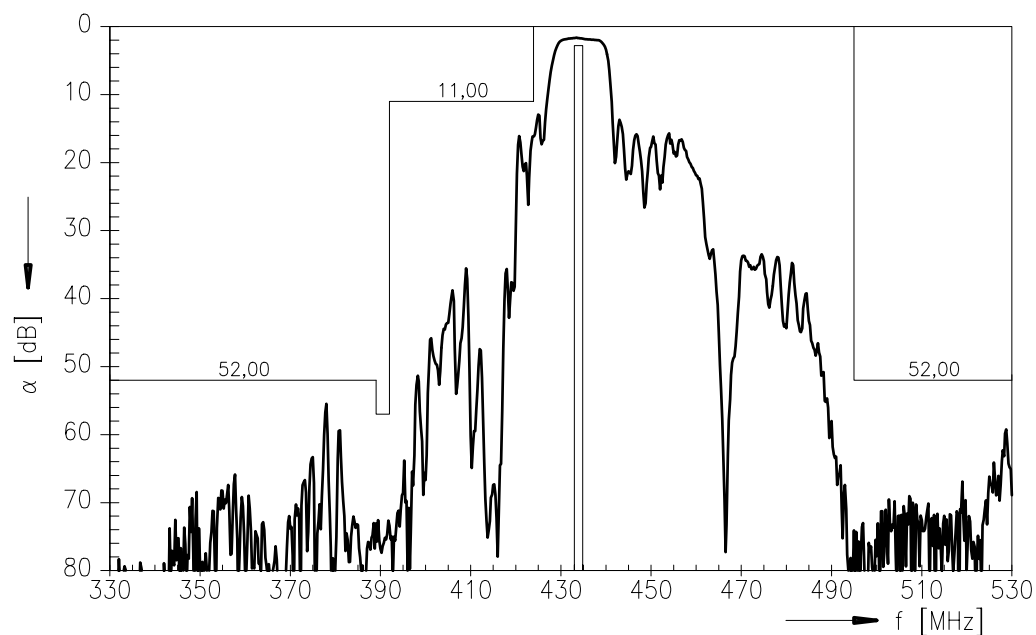
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**433,91 MHz**

### Data Sheet

#### Transfer function



#### Transfer function (wideband)

