



Siemens Matsushita Components

# SAW Components

## Low Loss Filter for Mobile Communication

**B4044**  
**422,18 MHz**

### Data Sheet

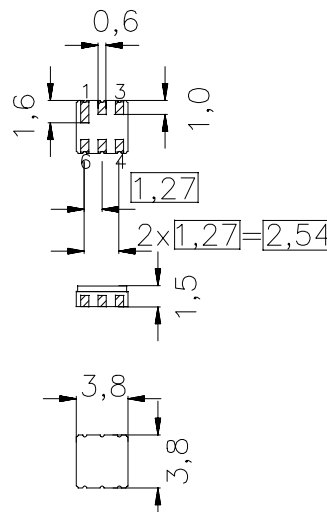
#### Features

- Low loss RF filter for Japan 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

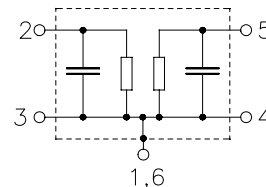
Ceramic package DCC6



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
B4044	B39421-B4044-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



Siemens Matsushita Components

# SAW Components

## Low Loss Filter for Mobile Communication

**B4044**  
**422,18 MHz**

### Data Sheet

#### 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>	$f_c$	—	422,18	—	MHz
<b>Maximum insertion attenuation</b> 421,95 ... 422,40 MHz	$\alpha_{\max}$	—	2,2	2,8	dB
<b>Amplitude ripple (p-p)</b> 421,95 ... 422,40 MHz	$\Delta\alpha$	—	0,3	1,0	dB
<b>Attenuation</b> 320,00 ... 378,00 MHz 378,00 ... 379,00 MHz 379,00 ... 412,00 MHz 485,00 ... 520,00 MHz	$\alpha_{\min}$	50,0 55,0 12,0 50,0	60,0 70,0 20,0 60,0	— — — —	dB dB dB dB
<b>Impedance at 422,18 MHz</b> Input: $Z_{IN} = R_{IN} \parallel C_{IN}$ Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		— —	50 $\parallel$ 1,0 50 $\parallel$ 1,0	— —	$\Omega \parallel \text{pF}$ $\Omega \parallel \text{pF}$
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-70	—	ppm/K



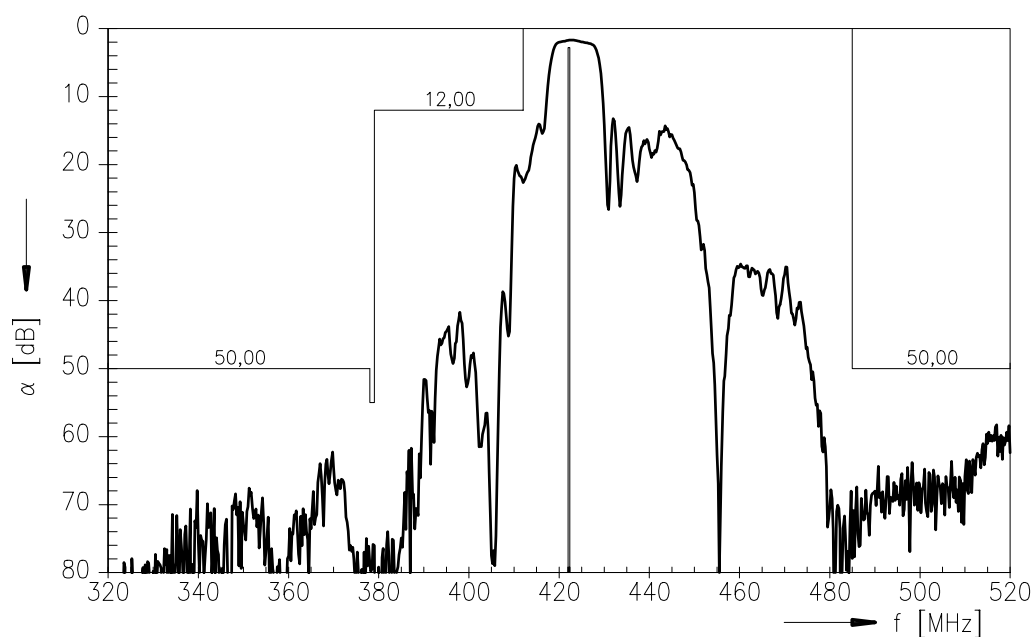
Siemens Matsushita Components

## SAW Components Low Loss Filter for Mobile Communication

**B4044**  
**422,18 MHz**

### Data Sheet

#### Transfer function



#### Transfer function (wideband)

