



Siemens Matsushita Components

**SAW Components**  
**Low Loss Filter for Mobile Communication**

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

**Data Sheet**

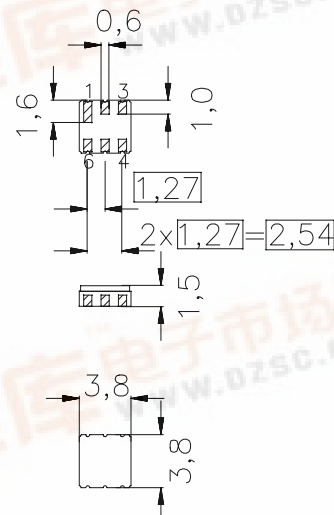
**Features**

- 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 Ω

**Terminals**

- Ni, gold-plated

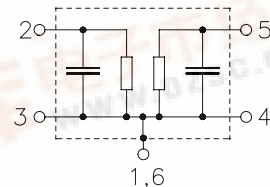
Ceramic package DCC6



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	°C
Storage temperature range	$T_{stg}$	-40 / +85	°C
DC voltage	$V_{DC}$	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>	$f_c$	—	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>	$\alpha_{min}$				
320,00 ... 378,00 MHz		50,0	60,0	—	dB
378,00 ... 379,00 MHz		55,0	70,0	—	dB
379,00 ... 412,00 MHz		12,0	20,0	—	dB
485,00 ... 520,00 MHz		50,0	60,0	—	dB
<b>Impedance at 422,18 MHz</b>					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	50 $\parallel$ 1,0	—	$\Omega \parallel$ pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	50 $\parallel$ 1,0	—	$\Omega \parallel$ pF
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-70	—	ppm/K



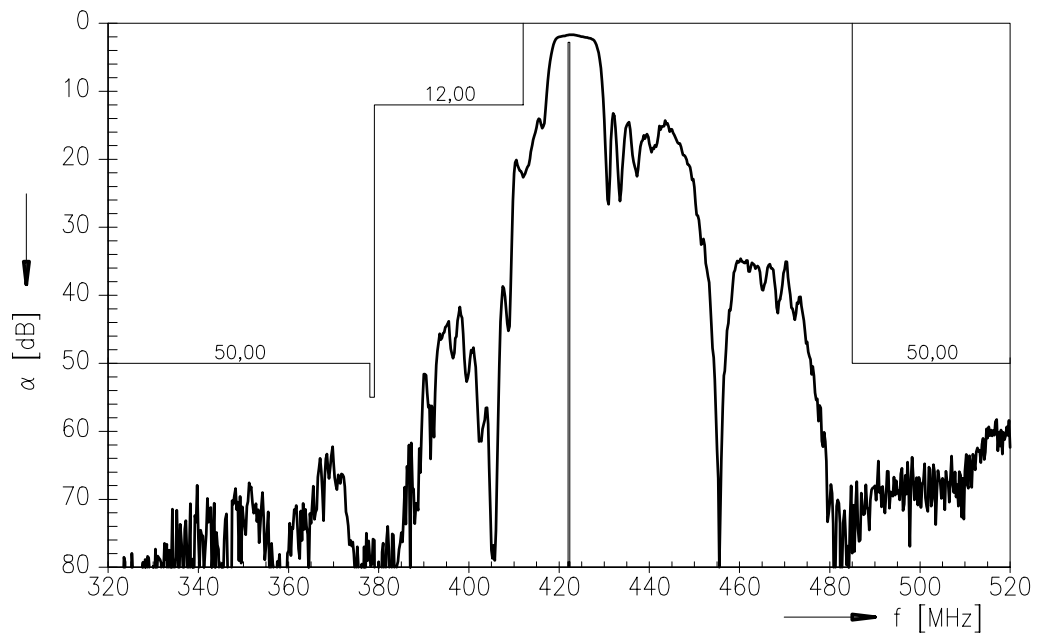
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### Transfer function



### Transfer function (wideband)

