



Siemens Matsushita Components

# SAW Components

## Low Loss Filter for Mobile Communication

**B4122**  
**836,5 MHz**

### Data Sheet

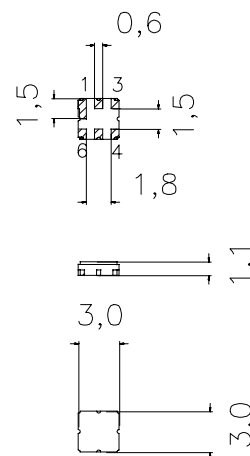
Ceramic package **DCC6C**

#### Features

- Low-loss RF filter for AMPS mobile telephone system, transmit path
- Low amplitude ripple
- Usable passband 25 MHz
- Ceramic package for **Surface Mounted Technology (SMT)**

#### Terminals

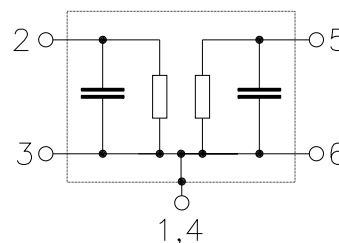
- Ni, gold-plated



Dimensions in mm, approx. weight 0,04 g

#### Pin configuration

2	Input
3	Ground
5	Output
6	Ground
1, 4	Case ground



Type	Ordering code	Marking and Package according to	Packing according to
B4122	B39841-B4122-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)

#### Maximum ratings

Operable temperature range	$T$	$-30 / +85$	$^{\circ}\text{C}$	
Storage temperature range	$T_{\text{stg}}$	$-40 / +85$	$^{\circ}\text{C}$	
DC voltage	$V_{\text{DC}}$	3	V	
Source power	$P_s$	0	dBm	source impedance 50 $\Omega$



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#### Characteristics

Operating temperature range:  $T = -30$  to  $+85$  °C  
Terminating source impedance:  $Z_S = 50 \Omega$   
Terminating load impedance:  $Z_L = 50 \Omega$

		min.	typ.	max.	
<b>Center frequency</b>	$f_C$	—	836,5	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{max}$				
824,0 ... 849,0 MHz		—	2,6	3,0	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
824,0 ... 849,0 MHz		—	1,1	1,5	dB
<b>VSWR</b>					
824,0 ... 849,0 MHz		—	1,92	2,0	
<b>Attenuation</b>	$\alpha$				
0,0 ... 800,0 MHz		30,0	50,0	—	dB
869,0 ... 894,0 MHz		32,0	34,0	—	dB
894,0 ... 920,0 MHz		34,0	40,0	—	dB
920,0 ... 1210,0 MHz		40,0	55,0	—	dB
1210,0 ... 1500,0 MHz		30,0	50,0	—	dB
1500,0 ... 2000,0 MHz		25,0	50,0	—	dB
2000,0 ... 2600,0 MHz		20,0	32,0	—	dB
2600,0 ... 3000,0 MHz		15,0	28,0	—	dB



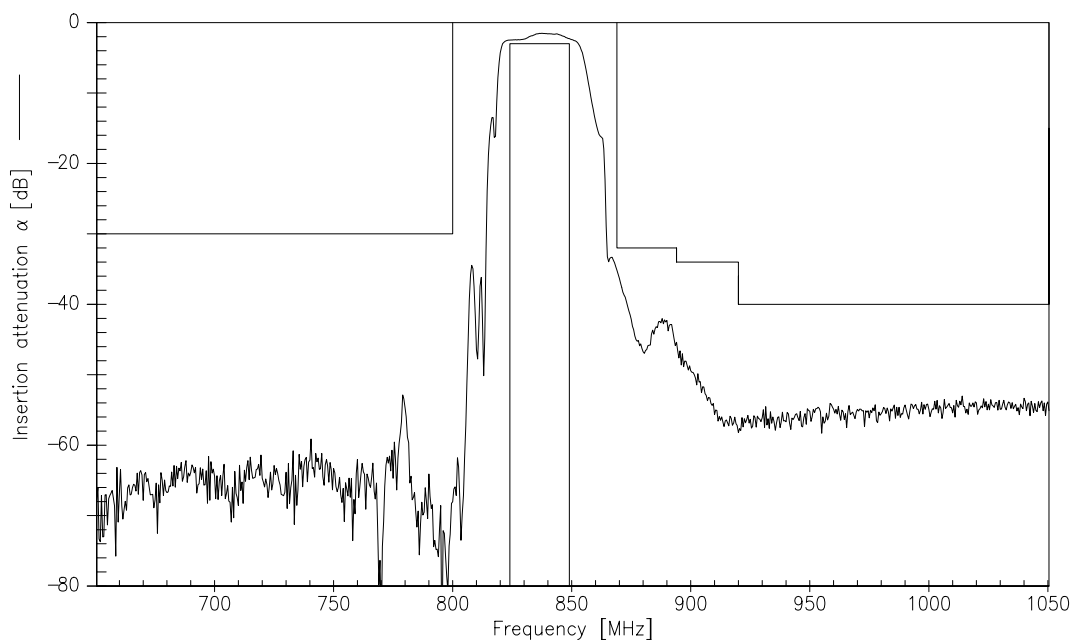
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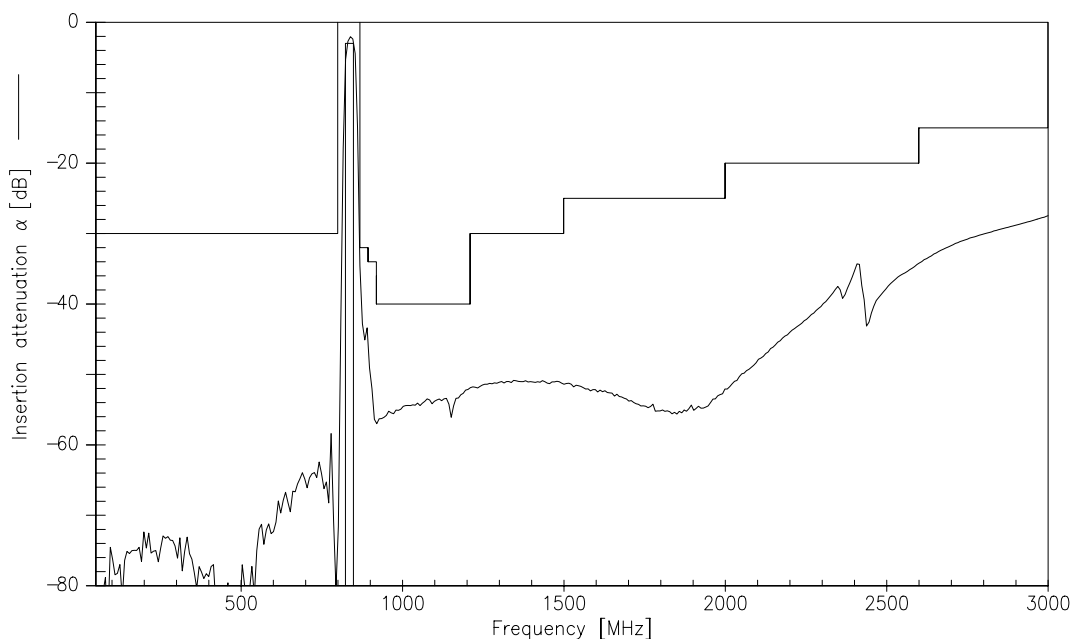
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### Data Sheet

#### Transfer function



#### Transfer function (wideband)





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#### Reflection functions

