



# SAW Components

Data Sheet B4125





## SAW Components

B4125

## Low-Loss Filter for Mobile Communication

881,5 MHz

### Data Sheet



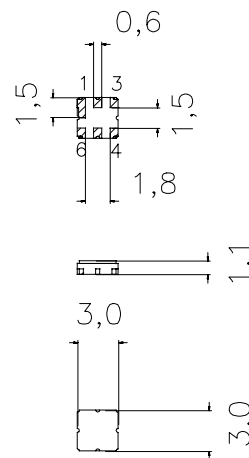
Ceramic package **DCC6C**

### Features

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

### Terminals

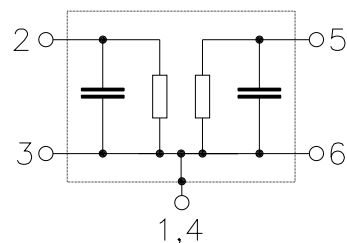
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

### Pin configuration

- |            |                        |
|------------|------------------------|
| 2          | Input                  |
| 5          | Output                 |
| 1, 3, 4, 6 | Ground, to be grounded |



Type	Ordering code	Marking and Package according to	Packing according to
B4125	B39881-B4125-U410	C61157-A7-A67	F61074-V8088-Z000

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

### Maximum ratings

Operable temperature range	$T$	- 30 / + 85	°C	source impedance 50 $\Omega$
Storage temperature range	$T_{\text{stg}}$	- 40 / + 85	°C	
DC voltage	$V_{\text{DC}}$	3	V	
Input power max.	$P_{\text{IN}}$	6	dBm	



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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>	$f_C$	—	881,5	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$				
869,0 ... 894,0 MHz		—	2,6	3,0	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
869,0 ... 894,0 MHz		—	1,1	1,5	dB
<b>VSWR</b>					
869,0 ... 894,0 MHz		—	1,5	1,6	
<b>Attenuation</b>	$\alpha$				
0,0 ... 824,0 MHz		35,0	50,0	—	dB
824,0 ... 849,0 MHz		35,0	45,0	—	dB
970,0 ... 997,0 MHz		35,0	60,0	—	dB
997,0 ... 1150,0 MHz		40,0	60,0	—	dB
1150,0 ... 1500,0 MHz		30,0	50,0	—	dB
1500,0 ... 2000,0 MHz		25,0	38,0	—	dB
2000,0 ... 3000,0 MHz		20,0	25,0	—	dB



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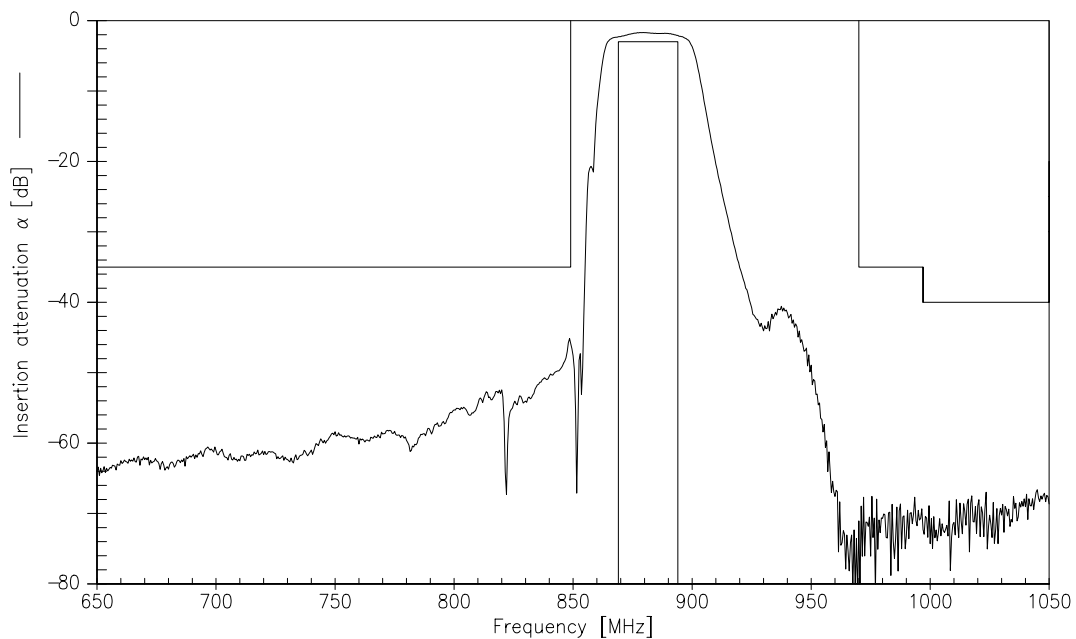
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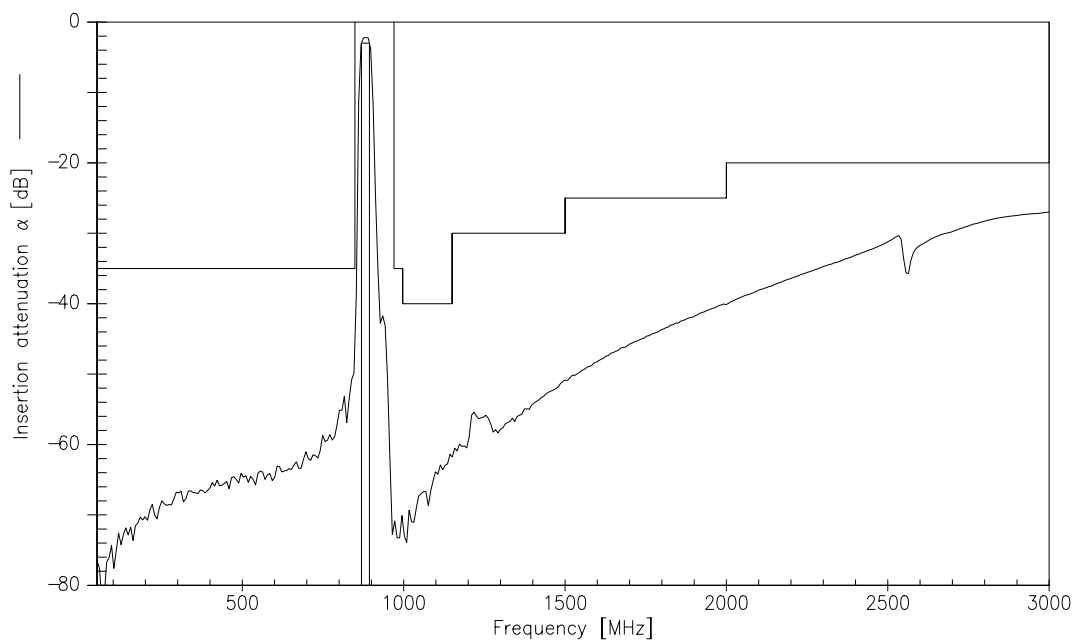
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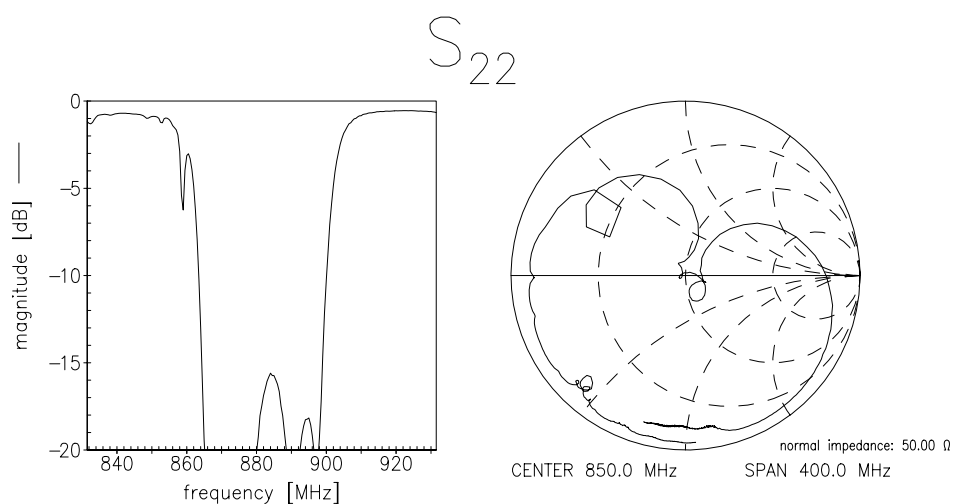
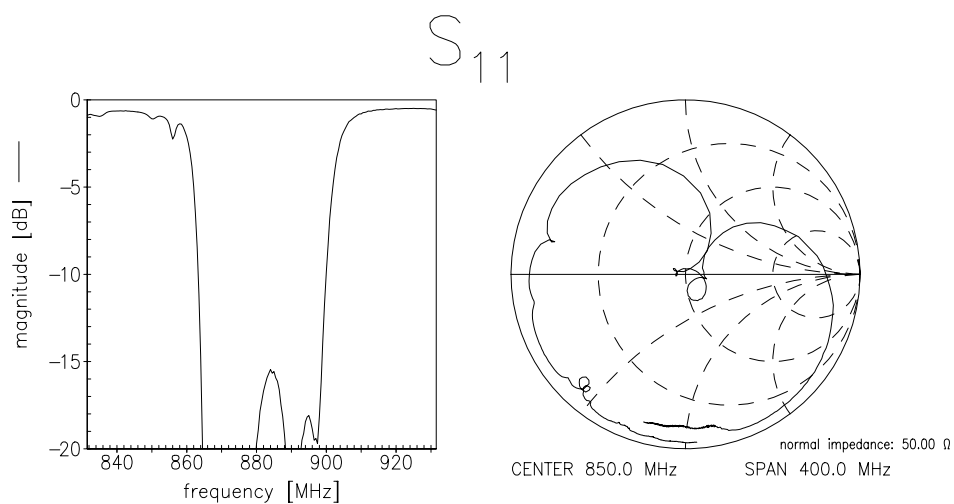
### Transfer function



### Transfer function (wideband)



# Reflection functions





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