



# SAW Components

Data Sheet B4125

Data Sheet

An abstract, grayscale graphic featuring a stylized globe with a grid pattern. Overlaid on the globe is the word "EPCOS" in a large, white, sans-serif font, which is slightly tilted and appears to be part of a larger, repeating pattern.



## SAW Components

B4125

## Low-Loss Filter for Mobile Communication

881,50 MHz

### Data Sheet



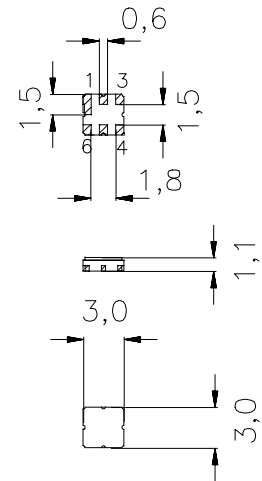
Ceramic package DCC6C

#### 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

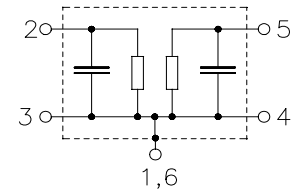
- Ni, gold-plated



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 Sensitive Device (ESD)

#### Maximum ratings

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

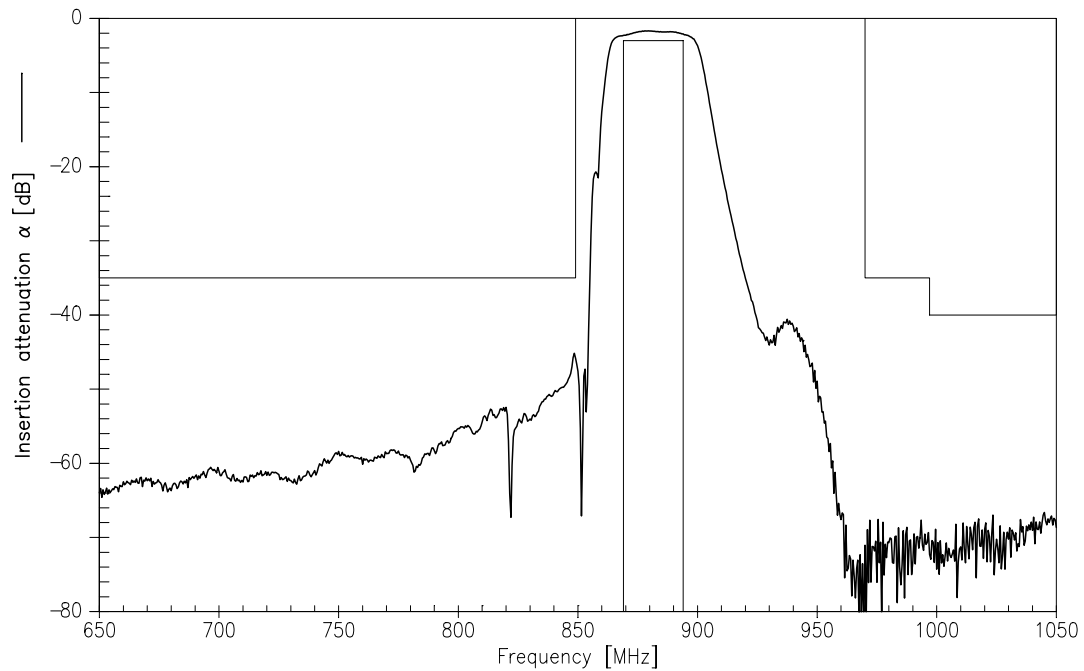
			min.	typ.	max.	
<b>Center frequency</b>	$f_C$		—	881,5	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$					
	869,0 ... 894,0 MHz		—	2,6	3,0	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$					
	869,0 ... 894,0 MHz		—	1,1	1,5	dB
<b>VSWR</b>						
	869,0 ... 894,0 MHz		—	1,5	1,6	
<b>Attenuation</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



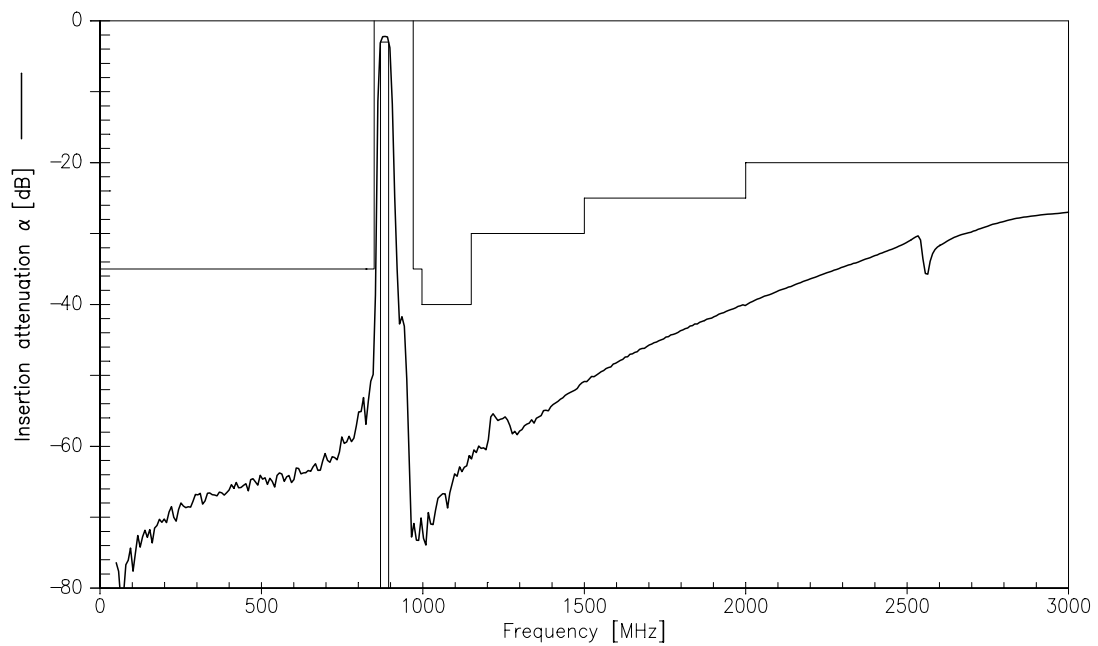
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## Transfer function



## Transfer function (wideband)





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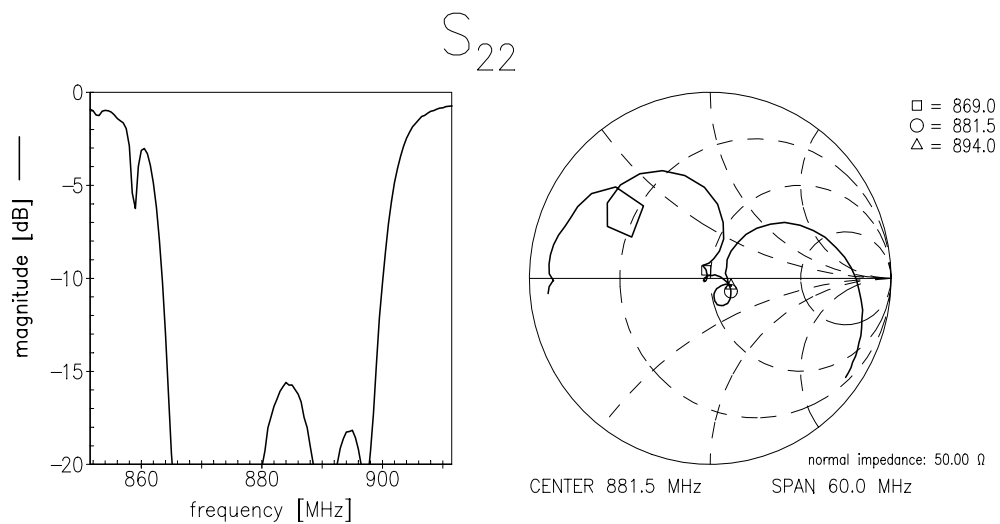
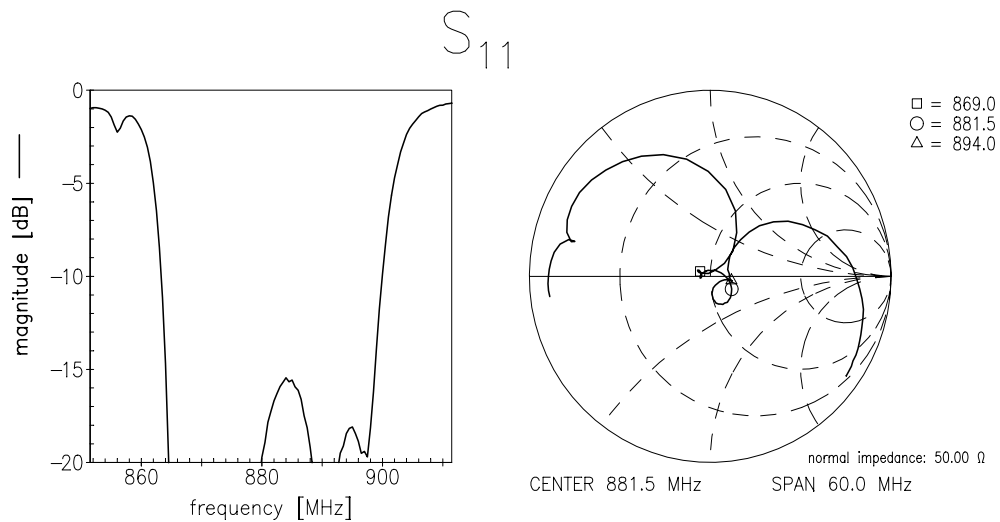
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Reflection functions





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