



# SAW Components

Data Sheet B3851

Data Sheet

A large, stylized, 3D graphic of the EPCOS logo. The letters "EPCOS" are rendered in a bold, sans-serif font, appearing to be part of a larger, curved structure that resembles a stylized globe or a series of overlapping planes. The graphic is in grayscale and has a metallic, reflective appearance.



## SAW Components

B3851

## Low-Loss Filter for Mobile Communication

881,50 MHz

### Preliminary Data



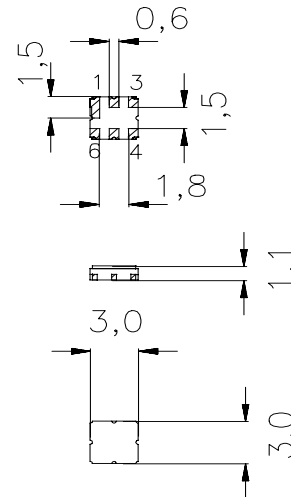
#### Features

- Low-loss RF filter for mobile telephone AMPS systems, receive path
- Usable passband 25 MHz
- No matching network required for operation at 50  $\Omega$
- Ceramic package for **Surface Mounted Technology (SMT)**

#### Terminals

- Ni, gold-plated

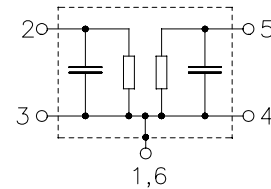
#### Ceramic package DCC6C



Dimensions in mm, approx. weight 0,037 g

#### Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B3851	B39881-B3851-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	$V_{\text{DC}}$	5	V	
Input power max.	$P_{\text{IN}}$	5	dBm	Source impedance 50 $\Omega$



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### Characteristics

Operating temperature range:  $T = -30$  to  $+85^{\circ}\text{C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$   
 Terminating load impedance:  $Z_L = 50\ \Omega$

		min.	typ.	max.	
<b>Center frequency</b>	$f_c$	—	881,50	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$				
869,0 ... 894,0 MHz		—	2,4	2,5	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
869,0 ... 894,0 MHz		—	1,4	1,5	dB
<b>VSWR</b>					
869,0 ... 894,0 MHz		—	1,7	1,9	
<b>Attenuation</b>	$\alpha$				
0,0 ... 824,0 MHz		25,0	27,0	—	dB
824,0 ... 849,0 MHz		28,0	35,0	—	dB
920,0 ... 1100,0 MHz		25,0	29,0	—	dB
1100,0 ... 3000,0 MHz		20,0	26,0	—	dB



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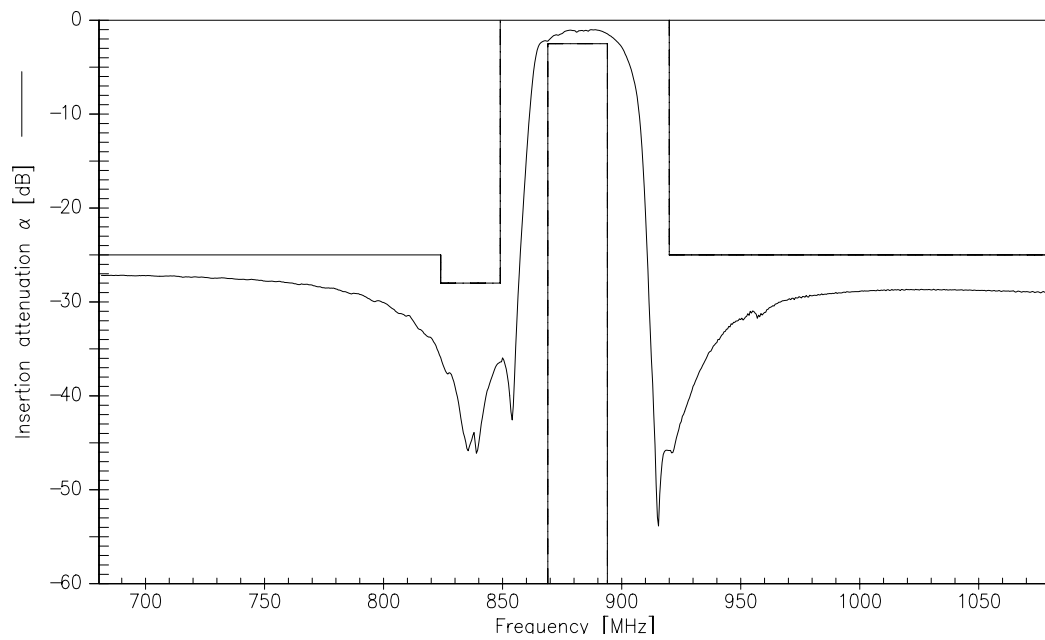
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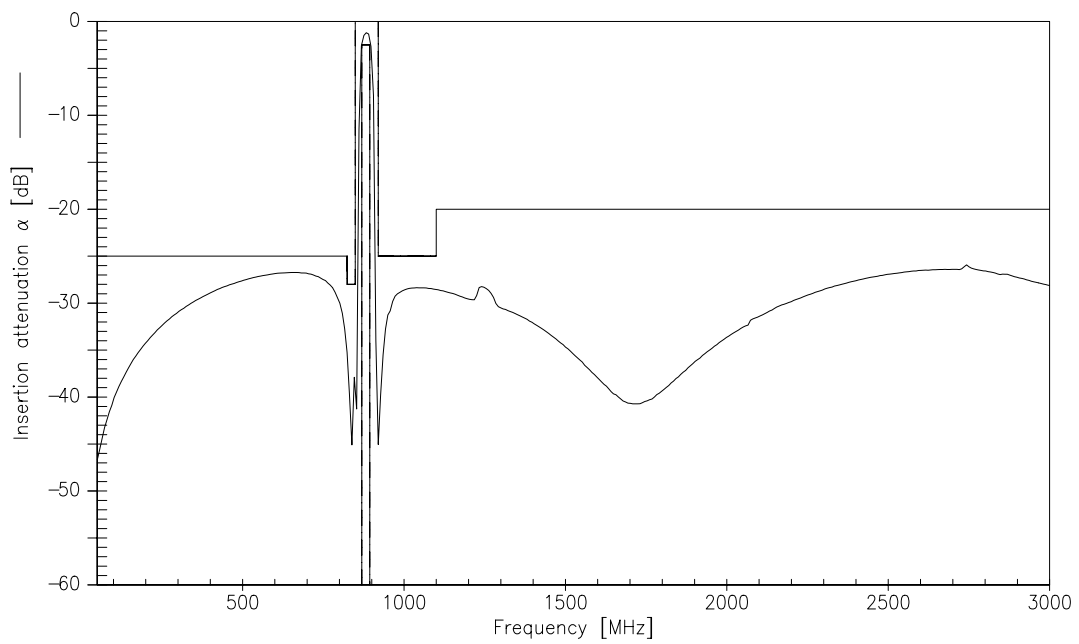
Preliminary Data



### Transfer function



### Transfer function (wideband)





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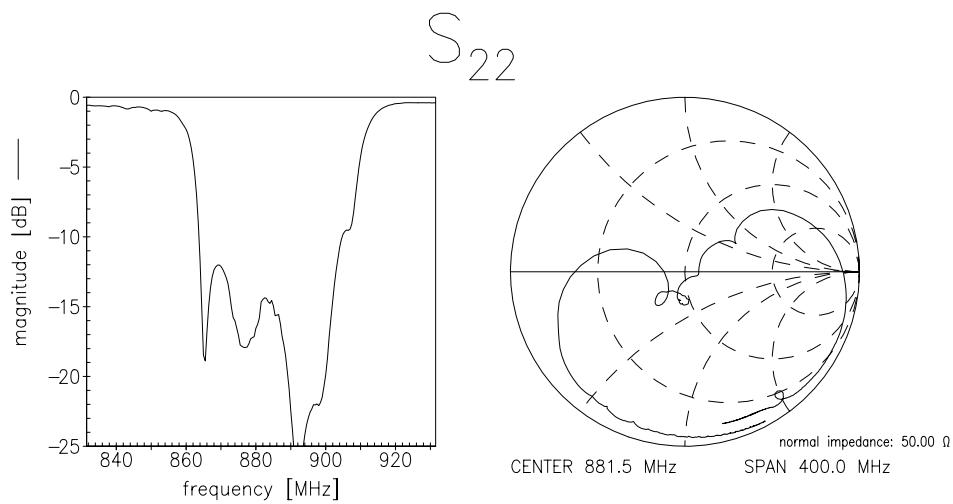
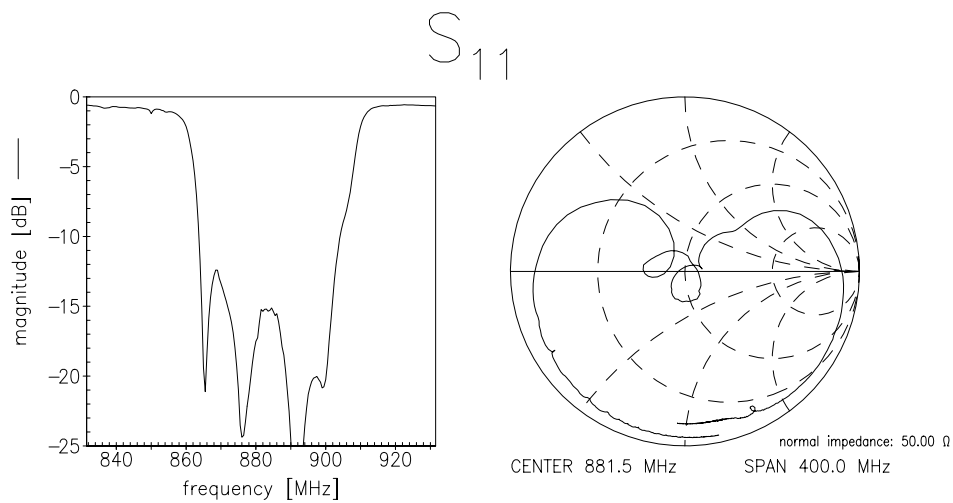
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Preliminary Data



### Reflection functions





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<b>Low-Loss Filter for Mobile Communication</b>	<b>881,50 MHz</b>
<b>Preliminary Data</b>	<b>SMD</b>

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