



SAW Components

Data Sheet B3851

Data Sheet

An abstract, grayscale background graphic featuring a globe with a grid of latitude and longitude lines. Overlaid on the globe is a large, stylized, 3D-effect word "EPCOS" in a light gray color. The word is tilted and appears to be floating or emerging from the globe. The overall image has a soft, ethereal quality with some light flares and a dark, textured background.

EPCOS



SAW Components

B3851

Low-Loss Filter for Mobile Communication

881,50 MHz

Preliminary Data



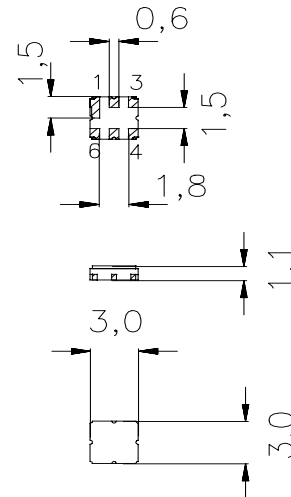
Features

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

Terminals

- Ni, gold-plated

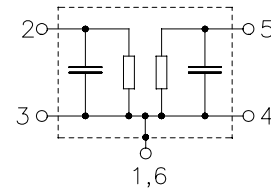
Ceramic package DCC6C



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_{stg}	- 40 / + 85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	5	V	
Input power max.	P_{IN}	5	dBm	Source impedance 50 Ω



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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.	
Center frequency	f_c	—	881,50	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$	—	2,4	2,5	dB
	869,0 ... 894,0 MHz	—	2,4	2,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$	—	1,4	1,5	dB
	869,0 ... 894,0 MHz	—	1,4	1,5	dB
VSWR		—	1,7	1,9	
	869,0 ... 894,0 MHz	—	1,7	1,9	
Attenuation	α				
	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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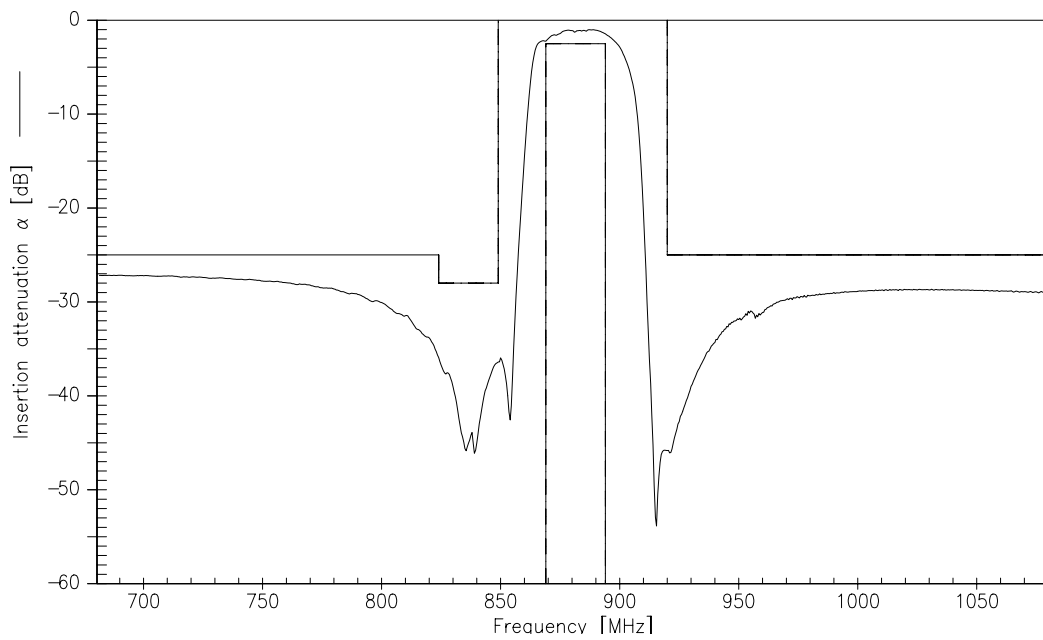
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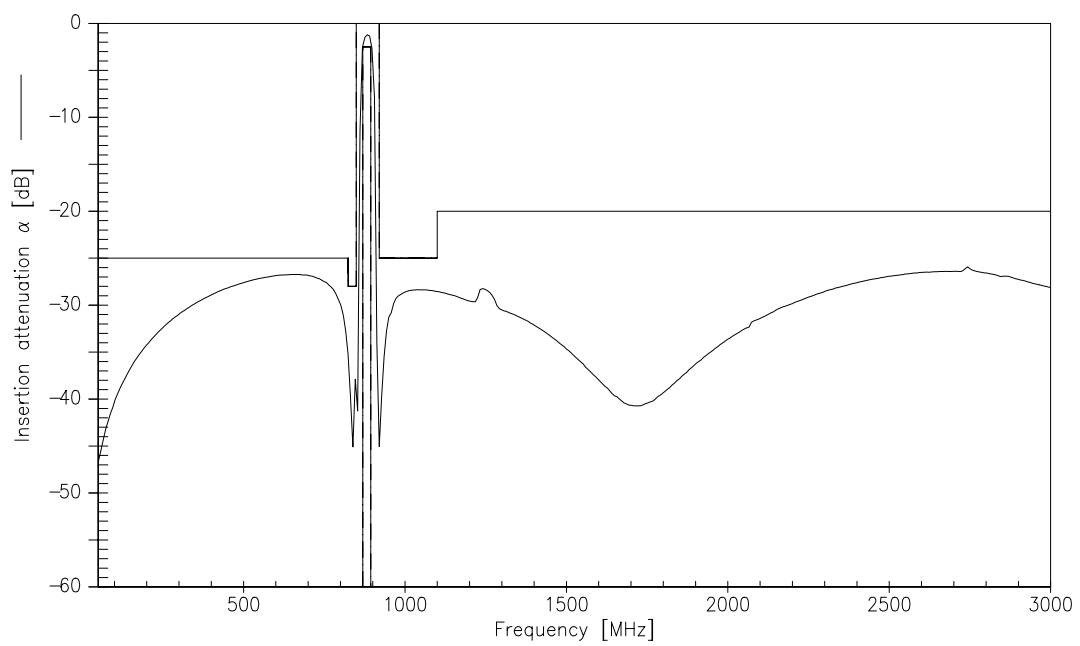
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Transfer function



Transfer function (wideband)





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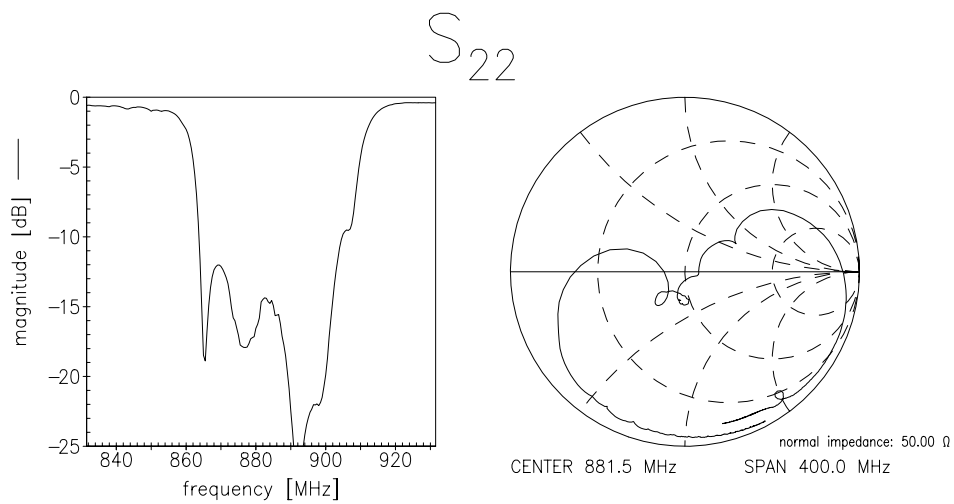
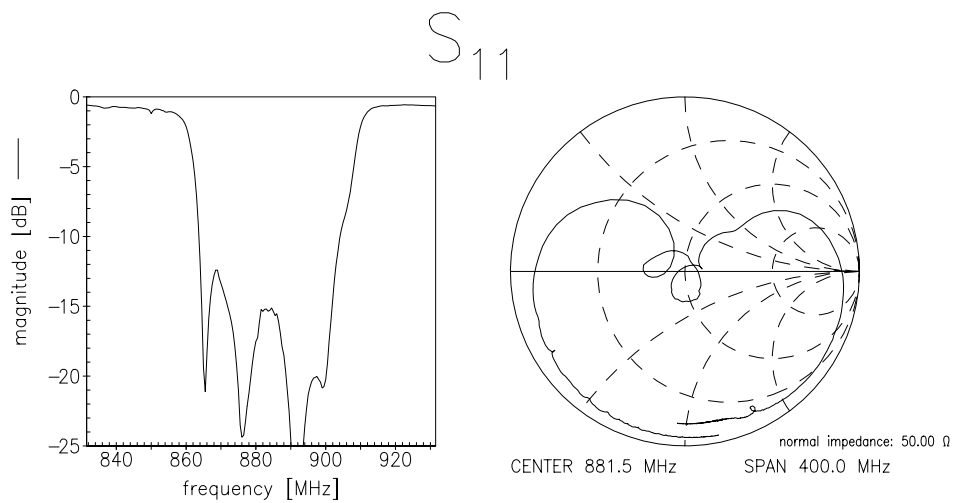
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Reflection functions





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Low-Loss Filter for Mobile Communication	881,50 MHz
Preliminary Data	SMD

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