



SAW Components

Data Sheet B4146

Data Sheet

An abstract, grayscale graphic featuring a stylized, three-dimensional representation 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 globe or a stylized wave. The background is dark and textured, with light reflecting off the surfaces of the logo.



SAW Components

B4146

Low-Loss Filter for Mobile Communication

881,50 MHz

Data Sheet



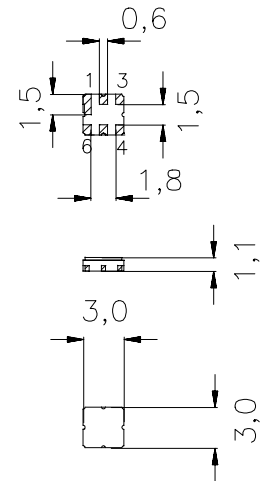
Ceramic package DCC6D

Features

- Low-loss RF filter for mobile telephone AMPS system, receive path
- Low amplitude ripple
- Usable passband 25 MHz
- Unbalanced to balanced operation
- Impedance transformation from 50 Ω to 200 Ω
- Ceramic package for Surface Mounted Technology (SMT)

Terminals

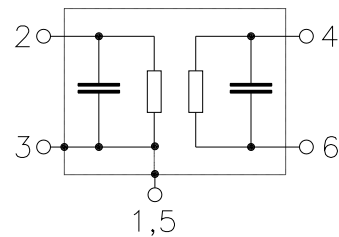
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B4146	B39881-B4146-U510	C61157-A7-A68	F61074-V8089-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 30 / + 85	$^{\circ}\text{C}$	Human Body Model source impedance 50 Ω
Storage temperature range	T_{stg}	- 40 / + 85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	5	V	
ESD	V_{ESD}	50	V	
Input power max.	P_{IN}	5	dBm	



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Characteristics

Operating temperature range: $T = -30$ to $+85\text{ }^{\circ}\text{C}$
Terminating source impedance: $Z_S = 50\ \Omega$
Terminating load impedance: $Z_L = 200\ \Omega \parallel 68\text{nH}(\text{balanced})$

			min.	typ.	max.	
Center frequency	f_C		—	881,5	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$					
	869,0 ... 894,0 MHz		—	2,5	3,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
	869,0 ... 894,0 MHz		—	0,7	1,2	dB
VSWR						
	869,0 ... 894,0 MHz		—	1,8	1,9	
Attenuation	α					
	0,0 ... 824,0 MHz		50,0	60,0	—	dB
	824,0 ... 849,0 MHz		35,0	40,0	—	dB
	924,0 ... 970,0 MHz		30,0	40,0	—	dB
	970,0 ...1300,0 MHz		50,0	65,0	—	dB
	1300,0 ...2000,0 MHz		40,0	60,0	—	dB
	2000,0 ...3000,0 MHz		30,0	50,0	—	dB



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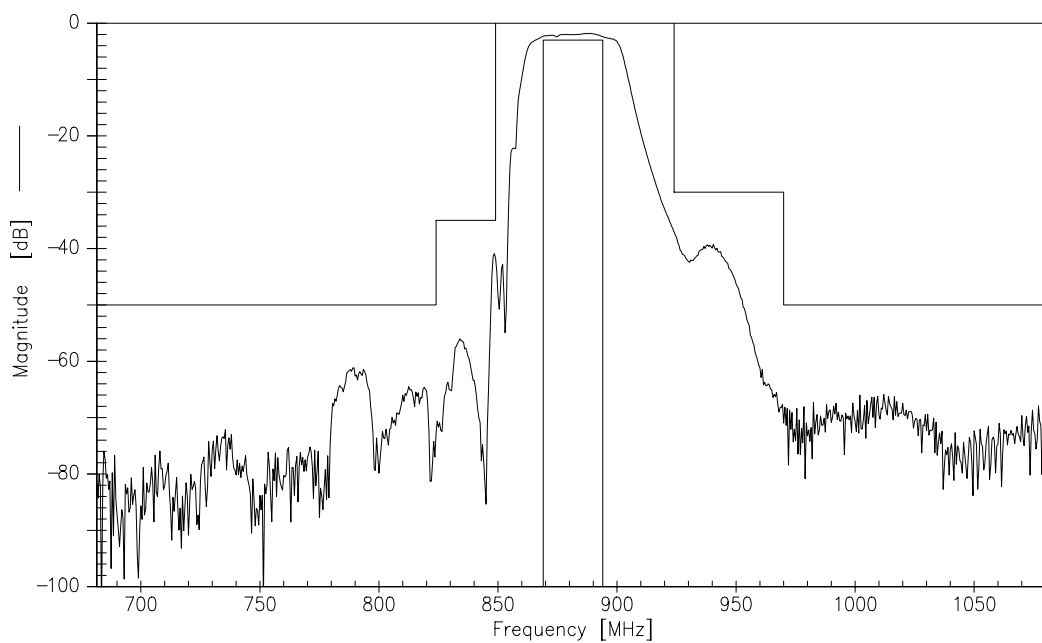
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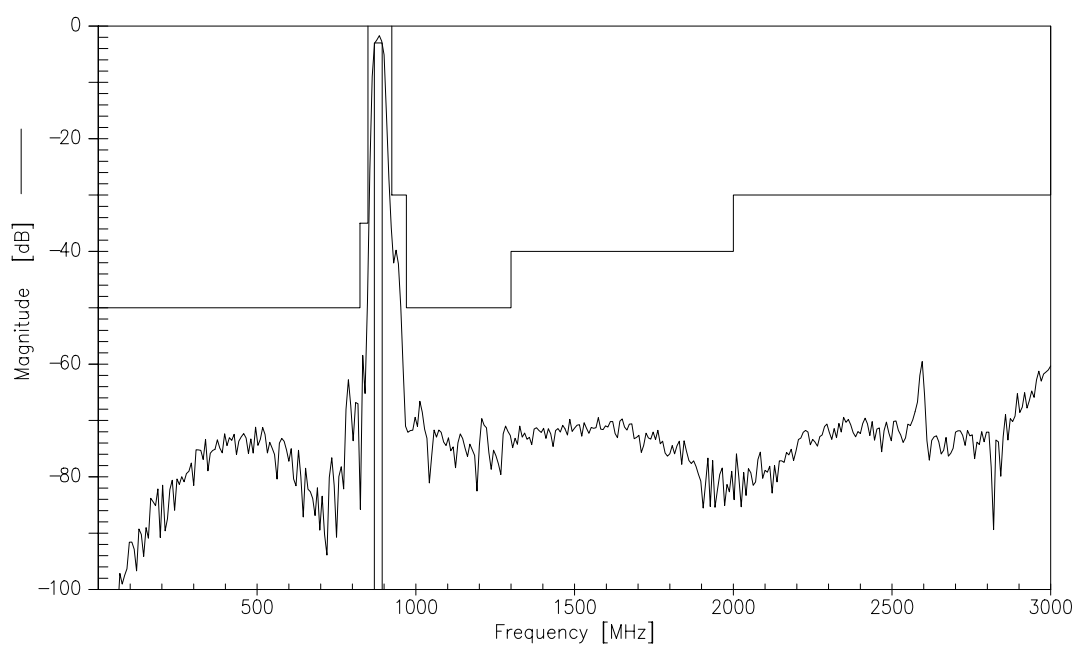
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Transfer function



Transfer function





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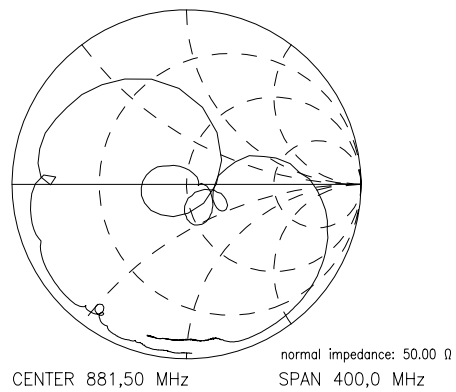
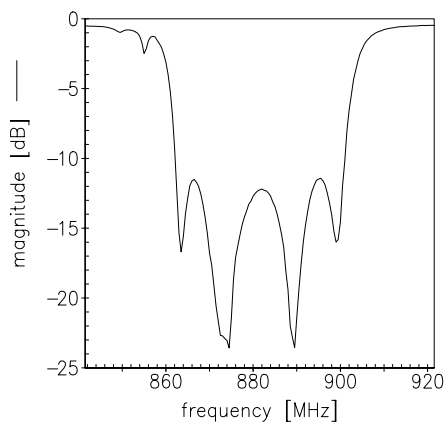
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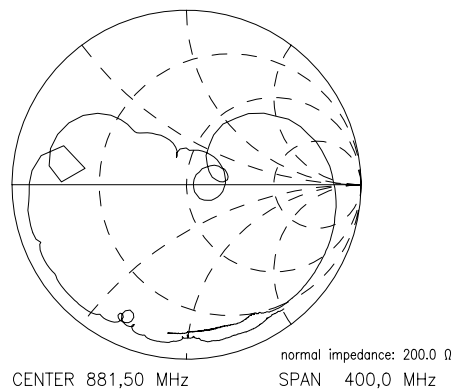
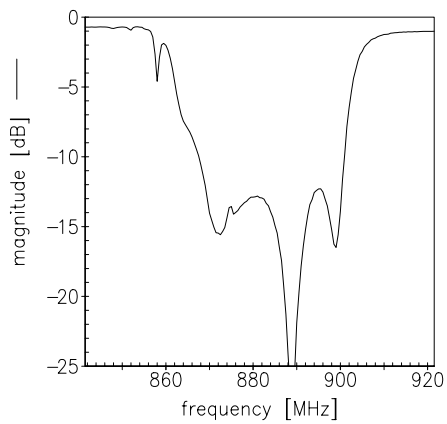
Data Sheet



S_{11}



S_{22}





SAW Components	B4146
Low-Loss Filter for Mobile Communication	881,50 MHz
Data Sheet	SMD

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