



SAW Components

Data Sheet B4180

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	B4180
Low-Loss Filter for Mobile Communication	836,50 MHz

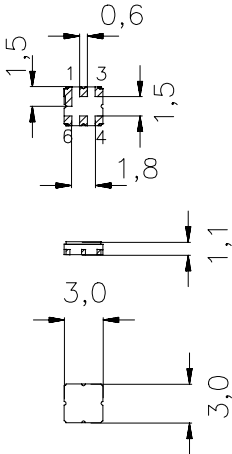
Preliminary Data



Features

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

Ceramic package **DCC6C**



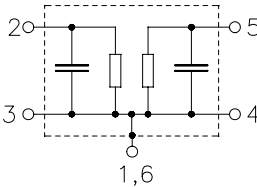
Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,037g

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
B4180	B39841-B4180-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	$-30 / +85$	$^{\circ}\text{C}$	source impedance 50 Ω continuous wave
Storage temperature range	T_{stg}	$-40 / +85$	$^{\circ}\text{C}$	
DC voltage	V_{DC}	5	V	
Input power max.	P_{IN}	15	dBm	



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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	—	836,5	—	MHz
Maximum insertion attenuation	α_{\max}				
824,0 ... 849,0 MHz		—	2,2	2,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
824,0 ... 849,0 MHz		—	1,0	1,5	dB
VSWR					
824,0 ... 849,0 MHz		—	1,9	2,1	
Attenuation	α				
0,0 ... 300,0 MHz		25,0	27,0	—	dB
300,0 ... 800,0 MHz		22,0	24,0	—	dB
869,0 ... 894,0 MHz		30,0	32,0	—	dB
894,0 ... 1800,0 MHz		25,0	27,0	—	dB
1800,0 ... 2200,0 MHz		20,0	22,0	—	dB
2200,0 ... 3000,0 MHz		13,0	15,0	—	dB



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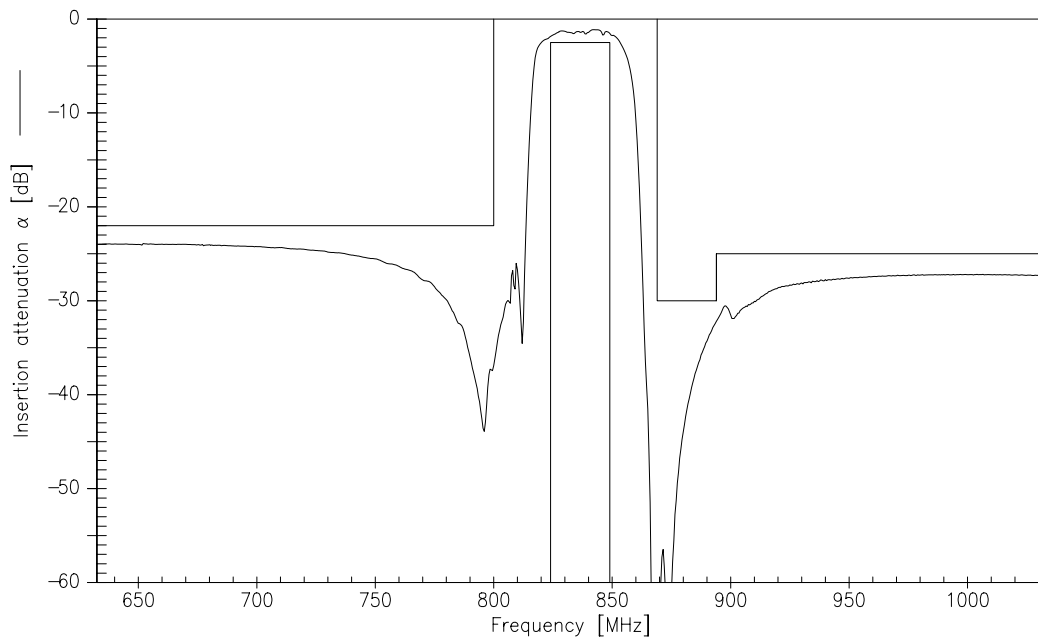
Low-Loss Filter for Mobile Communication

836,50 MHz

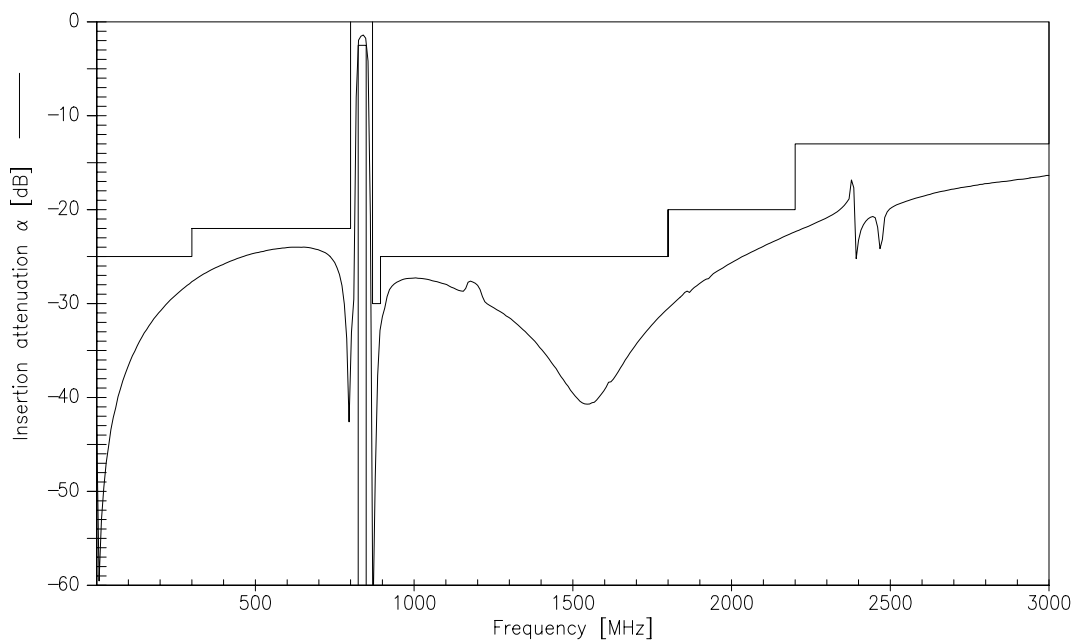
Preliminary Data



Transfer function(narrowband measurement)



Transfer function (wideband)





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Low-Loss Filter for Mobile Communication

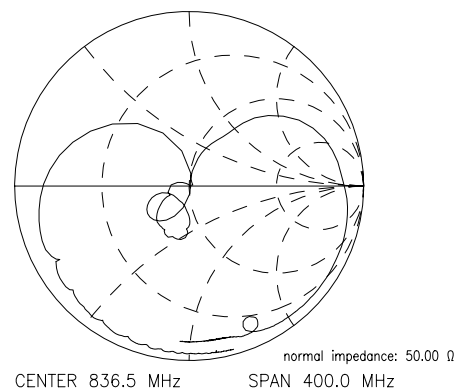
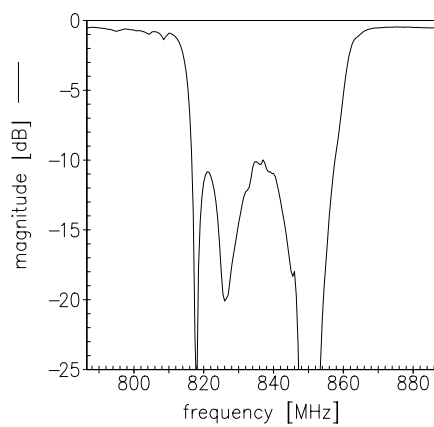
836,50 MHz

Preliminary Data

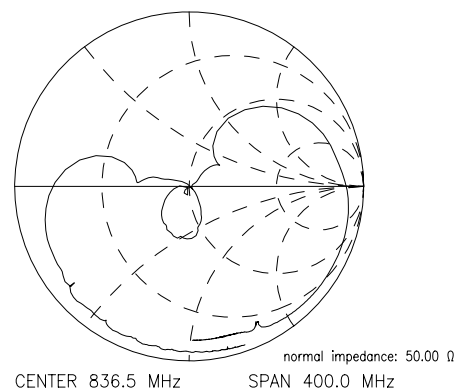
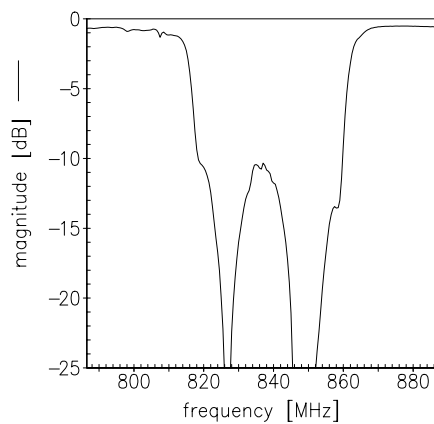


Reflection function(measurement)

S_{11}



S_{22}





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Preliminary Data	SMD

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