



# SAW Components

Data Sheet B4180





**SAW Components**

**B4180**

**Low-Loss Filter for Mobile Communication**

**836,50 MHz**

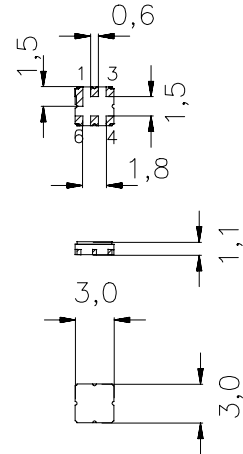
**Preliminary Data**



**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**



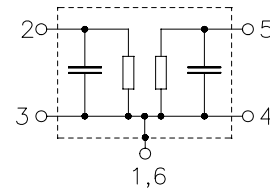
**Terminals**

- 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	°C	source impedance 50 Ω continous wave
Storage temperature range	$T_{stg}$	- 40 / + 85	°C	
DC voltage	$V_{DC}$	5	V	
Input power max.	$P_{IN}$	15	dBm	



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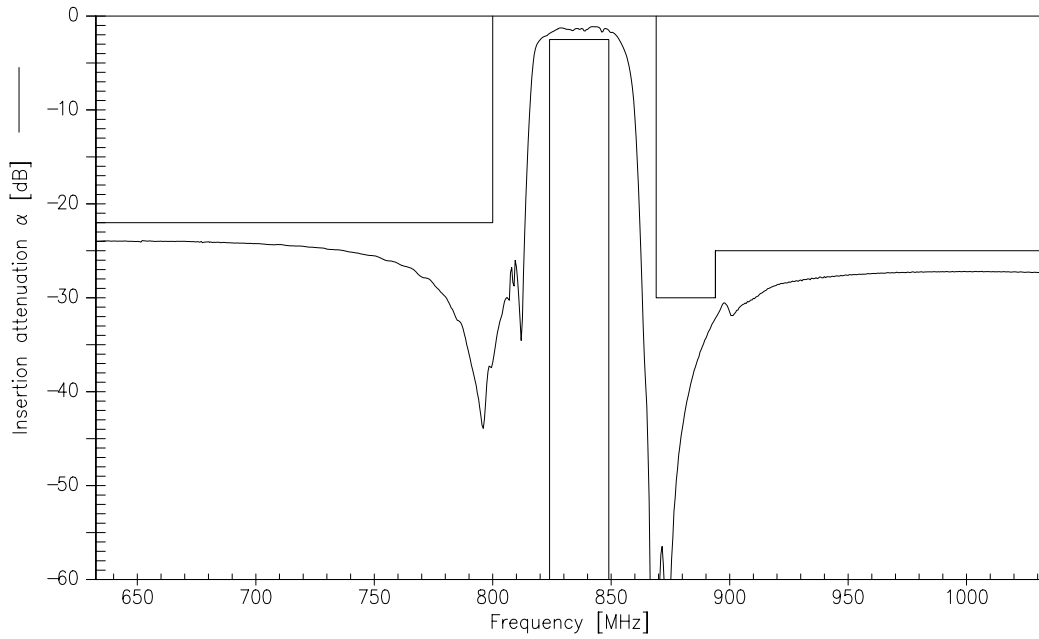
**Characteristics**

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

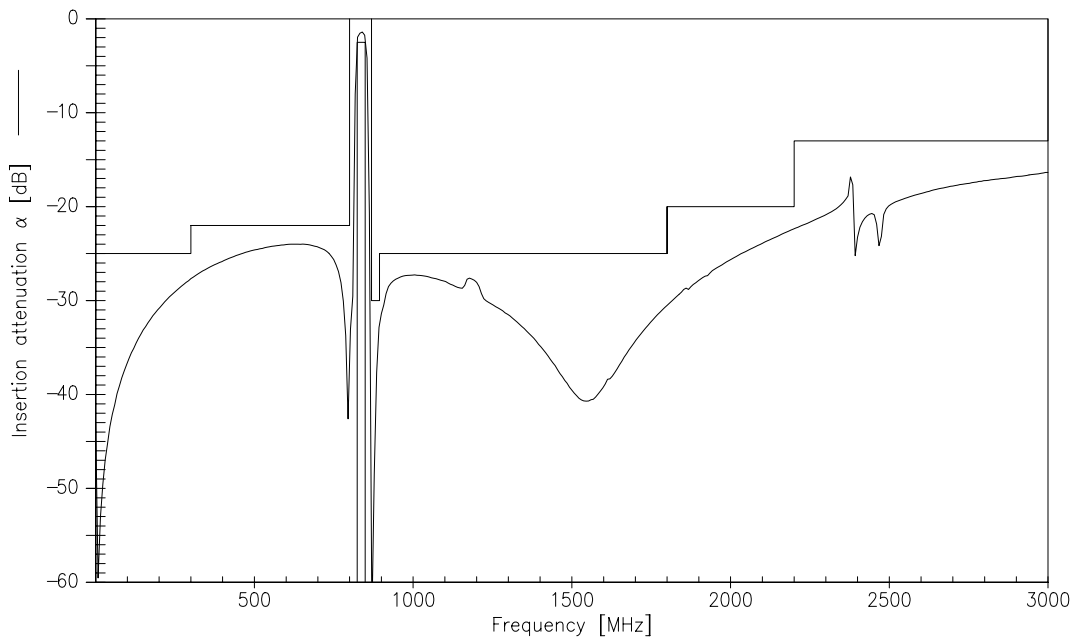
			min.	typ.	max.	
<b>Center frequency</b>	$f_c$		—	836,5	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$	824,0 ... 849,0 MHz	—	2,2	2,5	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	824,0 ... 849,0 MHz	—	1,0	1,5	dB
<b>VSWR</b>		824,0 ... 849,0 MHz	—	1,9	2,1	
<b>Attenuation</b>	$\alpha$	0,0 ... 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



**Transfer function(narrowband measurement)**

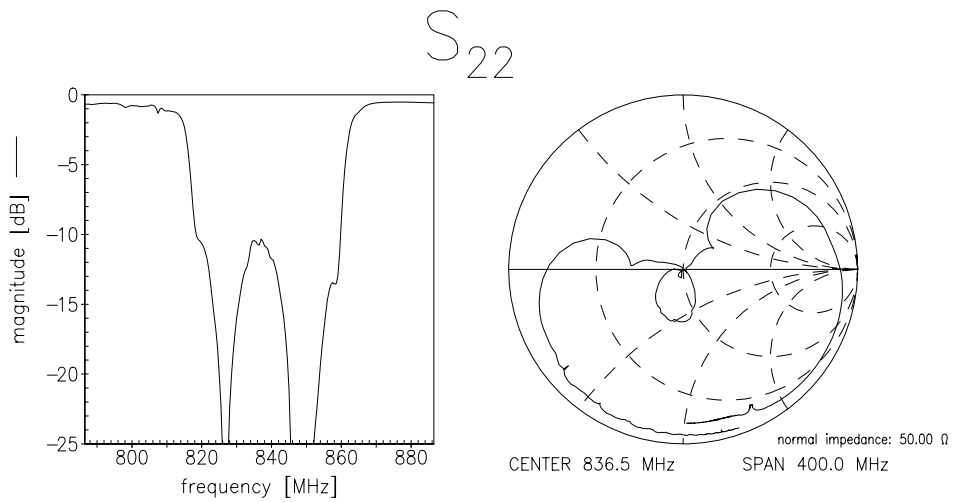
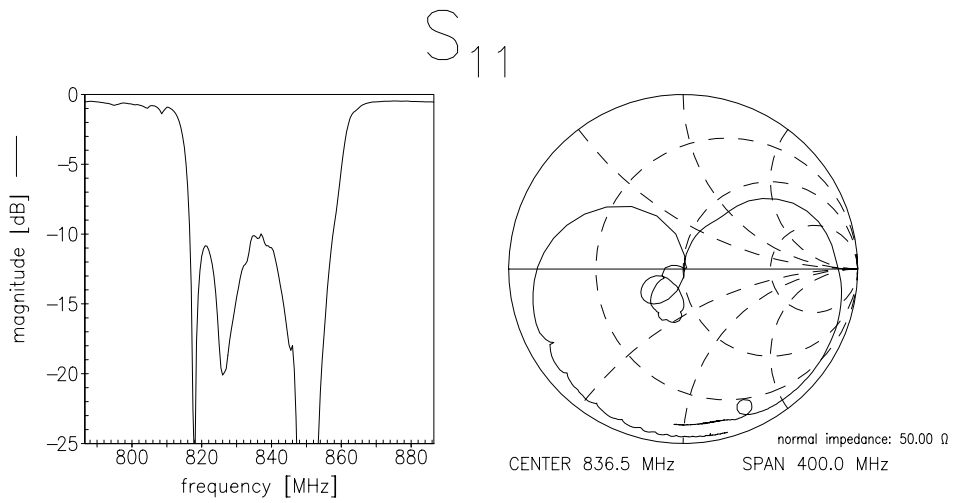


**Transfer function (wideband)**





Reflection function(measurement)





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