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# SAW Components

Data Sheet B4152

Data Sheet





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Low-Loss Filter for Mobile Communication

1842,5 MHz

Data Sheet



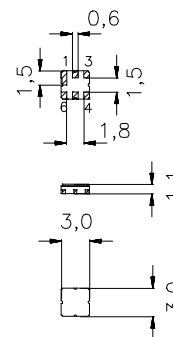
Ceramic package **DCC6D**

### Features

- Low-loss RF filter for mobile telephone PCN systems, receive path
- Low amplitude ripple
- Usable passband 75 MHz
- Unbalanced to balanced operation
- Package for **Surface Mounted Technology (SMT)**
- Ceramic SMD package

### Terminals

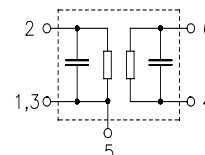
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

### Pin configuration

- |         |                   |
|---------|-------------------|
| 2       | Input, unbalanced |
| 4, 6    | Output, balanced  |
| 1, 3    | Input ground      |
| 1, 3, 5 | To be grounded    |



Type	Ordering code	Marking and Package according to	Packing according to
B4152	B39182-B4152-U510	C61157-A7-A68	F61074-V8089-Z000

### Electrostatic Sensitive Device (ESD)

### Maximum ratings

Operable temperature range	$T$	- 10 / + 75	°C	
Storage temperature range	$T_{stg}$	- 40 / + 85	°C	
DC voltage	$V_{DC}$	5	V	
Input power max.	$P_{IN}$			source/load impedance 50Ω/50Ω
		13	dBm	peak power of GSM signal duty cycle 2:8
		1710,0 ... 1785,0 MHz		



**Characteristics**

Operating Temperature Range:  $T = +25 \pm 2^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \Omega$  (unbalanced)  
 Terminating load impedance:  $Z_L = 50 \Omega$  (balanced)

		min.	typ.	max.	
<b>Center frequency</b>	$f_C$	—	1842,5	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$				
	1805,0 ... 1880,0 MHz	—	3,0	3,8	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
	1805,0 ... 1880,0 MHz	—	1,3	2,0	dB
<b>Input VSWR</b>					
	1805,0 ... 1880,0 MHz	—	2,8	3,0	dB
<b>Output VSWR</b>					
	1805,0 ... 1880,0 MHz	—	2,0	2,7	dB
<b>Attenuation</b>	$\alpha$				
	0 ... 1200,0 MHz	37	41	—	dB
	1200,0 ... 1650,0 MHz	25	35	—	dB
	1650,0 ... 1705,0 MHz	23	32	—	dB
	1705,0 ... 1785,0 MHz	13	15	—	dB
	1920,0 ... 1980,0 MHz	10	13	—	dB
	1980,0 ... 2000,0 MHz	22	27	—	dB
	2050,0 ... 6000,0 MHz	23	30	—	dB



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Characteristics

Operating Temperature Range:  $T = -10$  to  $+75^{\circ}\text{C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$  (unbalanced)  
 Terminating load impedance:  $Z_L = 50\ \Omega$  (balanced)

		min.	typ.	max.	
<b>Center frequency</b>	$f_C$	—	1842,5	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$	—	3,2	4,3	dB
1805,0 ... 1880,0 MHz					
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	—	1,5	2,5	dB
1805,0 ... 1880,0 MHz					
<b>Input VSWR</b>		—	2,8	3,3	dB
1805,0 ... 1880,0 MHz					
<b>Output VSWR</b>		—	2,1	3,0	dB
1805,0 ... 1880,0 MHz					
<b>Attenuation</b>	$\alpha$				dB
0 ... 1200,0 MHz		37	41	—	
1200,0 ... 1650,0 MHz		25	35	—	
1650,0 ... 1705,0 MHz		23	32	—	
1705,0 ... 1785,0 MHz		10	15	—	
1920,0 ... 1980,0 MHz		9	13	—	
1980,0 ... 2000,0 MHz		22	26	—	
2050,0 ... 6000,0 MHz		23	30	—	



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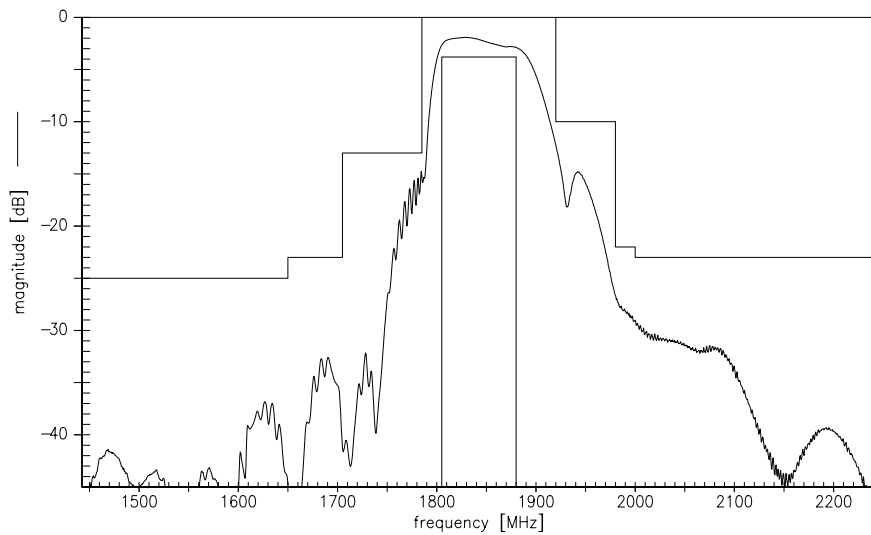
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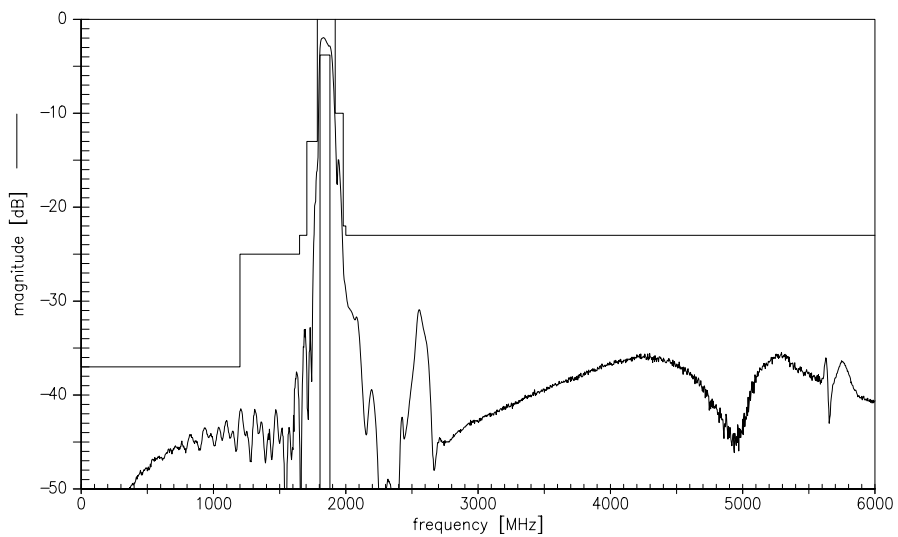
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### Transfer function



### Transfer function (wide band)





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