



# SAW Components

Data Sheet B3668

Data Sheet

EPCOS



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## Low-Loss Filter

1950 MHz

### Data Sheet

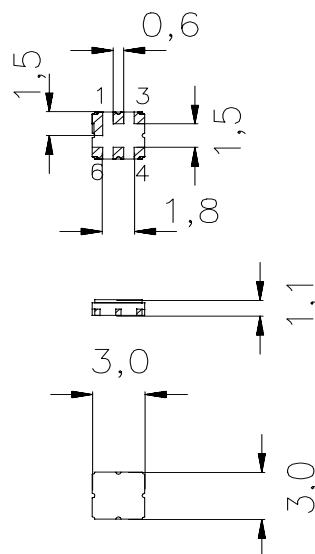
SMD ceramic package **DCC6C**

### Features

- Low-loss RF filter for UMTS system
- Usable passband 60 MHz
- No matching network required for operation at 50  $\Omega$
- Ceramic Package for **Surface Mounted Technology (SMT)**
- RoHS Compliant

### Terminals

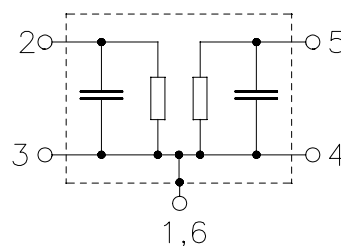
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

### Pin configuration

2	Input
1, 3	Input ground
5	Output
4, 6	Output ground



Type	Ordering code	Marking and Package according to	Packing according to
B3668	B39202-B3668-U410	C61157-A7-A67	F61074-V8168-Z000

### Electrostatic Sensitive Device (ESD)

### Maximum ratings

Operable temperature range	T	-40 / +85	°C	
Storage temperature range	T <sub>stg</sub>	-40 / +85	°C	
DC voltage	V <sub>DC</sub>	0	V	
ESD voltage	V <sub>ESD</sub>	50 <sup>1)</sup>	V	Machine Model, 10 pulses
Input power max.				
2080,0 ... 2170,0 MHz	P <sub>IN</sub>	12	dBm	continuous wave, 85 °C
	P <sub>IN</sub>	15	dBm	continuous wave, 55 °C

1) acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses.



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#### Characteristics

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

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$	—	1950,0	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$	—	3,0	3,5	dB
	1920,0 ... 1980,0 MHz	—	3,0	3,5	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	—	1,5	2,1	dB
	1920,0 ... 1980,0 MHz	—	1,5	2,1	dB
<b>Return loss</b>		8,0	10,0	—	dB
	1920,0 ... 1980,0 MHz	8,0	10,0	—	dB
<b>Attenuation</b>	$\alpha$				
	50,0 ... 1400,0 MHz	22,0	25,0	—	dB
	1400,0 ... 1495,0 MHz	25,0	28,0	—	dB
	1495,0 ... 1700,0 MHz	28,0	31,0	—	dB
	1700,0 ... 1870,0 MHz	30,0	34,0	—	dB
	1870,0 ... 1880,0 MHz	20,0 *)	30,0	—	dB
	2000,0 ... 2015,0 MHz	3,5	6,0	—	dB
	2015,0 ... 2030,0 MHz	8,0	20,0	—	dB
	2030,0 ... 2050,0 MHz	35,0	45,0	—	dB
	2050,0 ... 2080,0 MHz	33,0	37,0	—	dB
	2080,0 ... 2170,0 MHz	30,0	34,0	—	dB
	2170,0 ... 5000,0 MHz	25,0	30,0	—	dB
	5000,0 ... 5800,0 MHz	10,0	12,0	—	dB
	5800,0 ... 6000,0 MHz	8,0	10,0	—	dB
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-35	—	ppm/K

\*) min. 15 dB ( $T > 45 \text{ }^\circ\text{C}$ )



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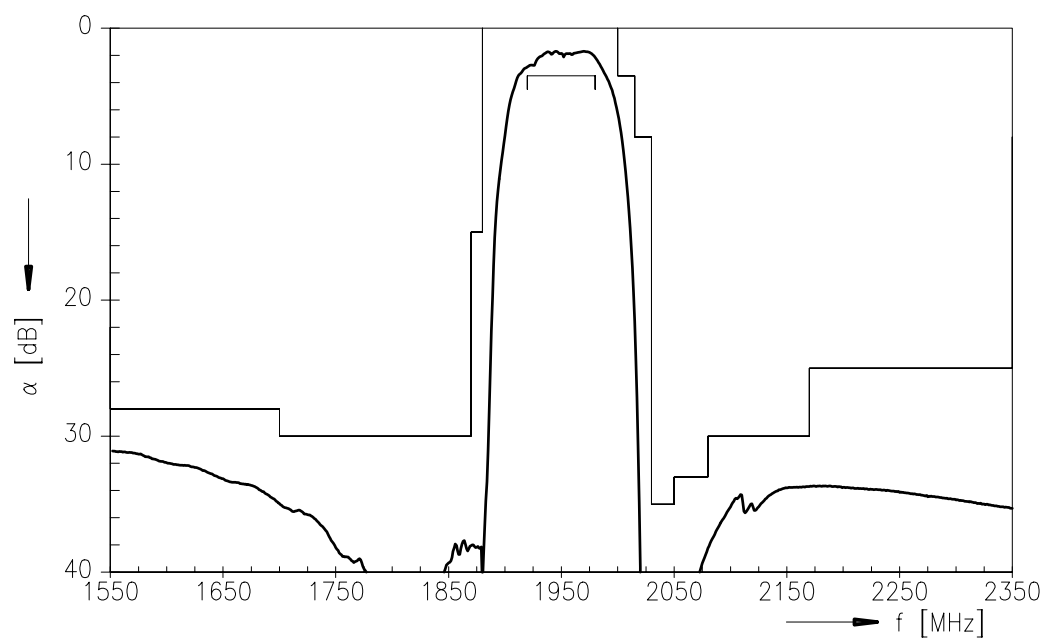
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Low-Loss Filter

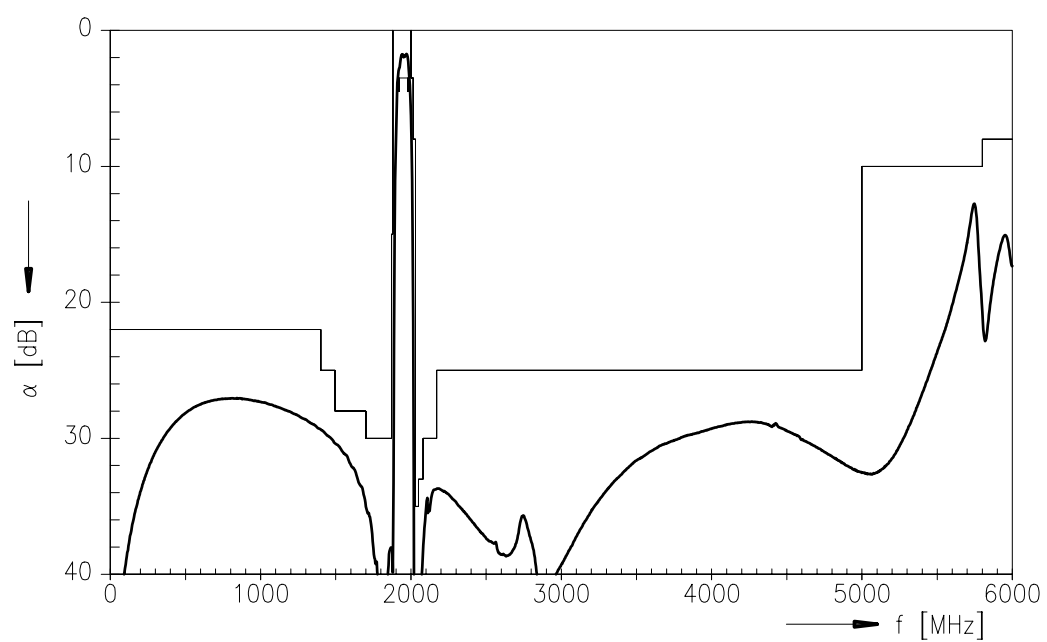
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Transfer function (narrow band)



Transfer function (wide band)





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