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SAW Components

Data Sheet B3668

Data Sheet





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Low-Loss Filter

1950 MHz

Data Sheet

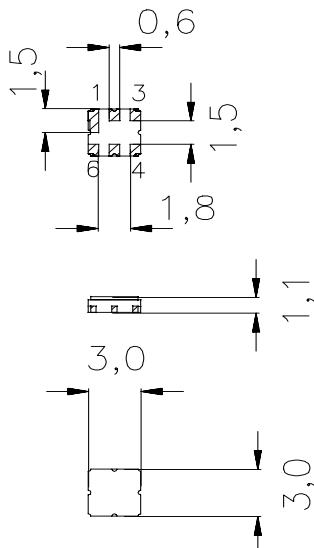
Features

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

Terminals

- Ni, gold-plated

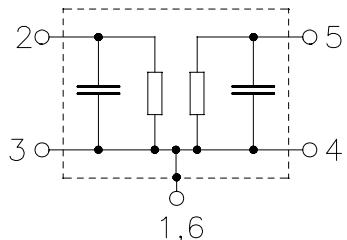
SMD ceramic package DCC6C



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	$^{\circ}\text{C}$	
Storage temperature range	T_{stg}	-40 / +85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
ESD voltage	V_{ESD}	50 ¹⁾	V	Machine Model, 10 pulses
Input power max.				
2080,0 ... 2170,0 MHz	P_{IN}	12	dBm	continuous wave, 85 $^{\circ}\text{C}$
	P_{IN}	15	dBm	continuous wave, 55 $^{\circ}\text{C}$

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



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Characteristics							
Operating temperature range:	T_A	=	-30 ... +85 °C				
Terminating source impedance:	Z_S	=	50 Ω				
Terminating load impedance:	Z_L	=	50 Ω				
Nominal frequency	f_N	min.	typ.	max.			
Maximum insertion attenuation	α_{max}						
1920,0 ... 1980,0 MHz		—	3,0	3,5			
Amplitude ripple (p-p)	$\Delta\alpha$						
1920,0 ... 1980,0 MHz		—	1,5	2,1			
Return loss							
1920,0 ... 1980,0 MHz		8,0	10,0	—			
Attenuation	α						
50,0 ... 1400,0 MHz		22,0	25,0	—			
1400,0 ... 1495,0 MHz		25,0	28,0	—			
1495,0 ... 1700,0 MHz		28,0	31,0	—			
1700,0 ... 1870,0 MHz		30,0	34,0	—			
1870,0 ... 1880,0 MHz	20,0 *)	30,0	—	dB			
2000,0 ... 2015,0 MHz		3,5	6,0	—			
2015,0 ... 2030,0 MHz		8,0	20,0	—			
2030,0 ... 2050,0 MHz		35,0	45,0	—			
2050,0 ... 2080,0 MHz		33,0	37,0	—			
2080,0 ... 2170,0 MHz		30,0	34,0	—			
2170,0 ... 5000,0 MHz		25,0	30,0	—			
5000,0 ... 5800,0 MHz		10,0	12,0	—			
5800,0 ... 6000,0 MHz		8,0	10,0	—			
Temperature coefficient of frequency	TC_f	—	-35	—			
ppm/K							

*) min. 15 dB (T > 45 °C)



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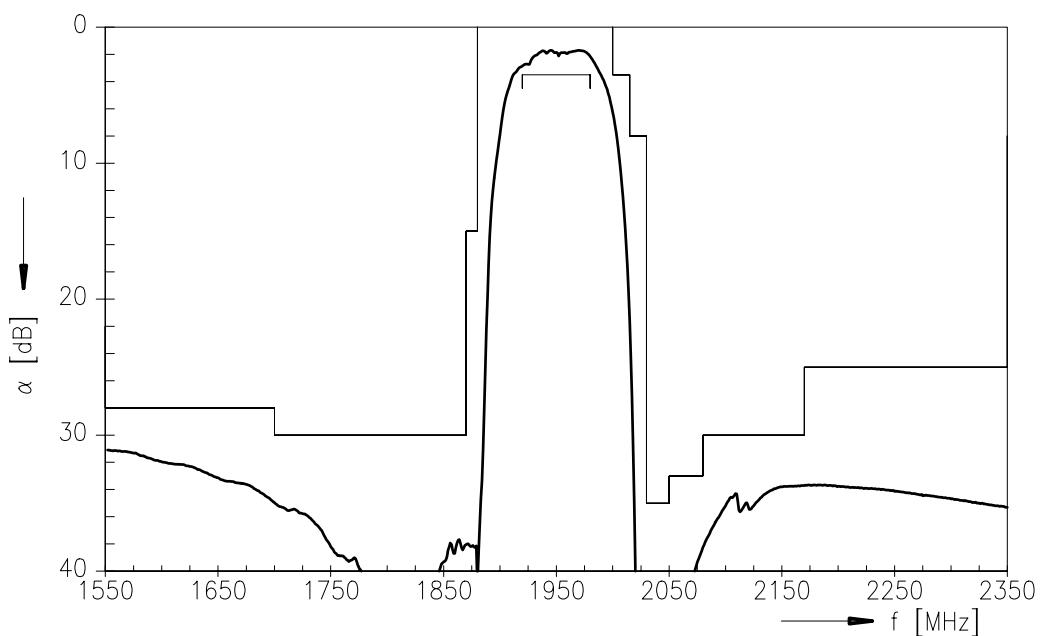
B3668

Low-Loss Filter

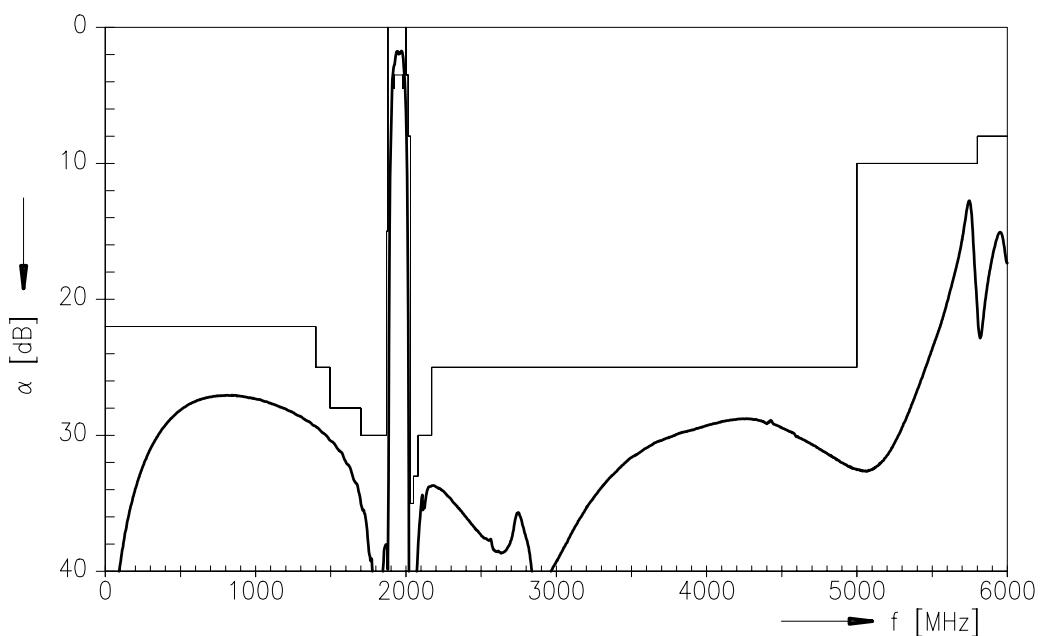
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Transfer function (narrow band)



Transfer function (wide band)





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