



SAW filters for mobile communications

Series/Type: B9067

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39202B9067E913		2008-08-01	2009-02-28	2009-08-31

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SAW Components

B9067

Low-Loss Filter for Mobile Communication

1950,0 MHz

Data Sheet



Characteristics

Operating temperature range: $T = +25\text{ }^{\circ}\text{C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ.	max.	
Center frequency	f_C	—	1950,0	—	MHz
Maximum insertion attenuation	α_{max}	—	1,9	2,2	dB
	1920,0 ... 1980,0 MHz				
Ripple	p-p	—	0,8	1,1	dB
	1920,0 ... 1980,0 MHz				
Input VSWR		—	1,9	2,3	
	1920,0 ... 1980,0 MHz				
Output VSWR		—	1,9	2,3	
	1920,0 ... 1980,0 MHz				
Attenuation	α				
	0,0 ... 1575,0 MHz	30	35	—	dB
	1575,0 ... 1805,0 MHz	35	39	—	dB
	1805,0 ... 1880,0 MHz	25	32	—	dB
	2025,0 ... 2050,0 MHz	35	44	—	dB
	2110,0 ... 2170,0 MHz	45	50	—	dB
	2300,0 ... 2490,0 MHz	40	46	—	dB
	2490,0 ... 2740,0 MHz	35	41	—	dB
	2740,0 ... 3960,0 MHz	25	31	—	dB
	3960,0 ... 5000,0 MHz	20	25	—	dB
	5000,0 ... 6000,0 MHz	18	23	—	dB



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Low-Loss Filter for Mobile Communication

1950,0 MHz

Data Sheet



Characteristics

Operating temperature range: $T = -30$ to $+85$ °C
 Terminating source impedance: $Z_S = 50 \Omega$
 Terminating load impedance: $Z_L = 50 \Omega$

		min.	typ.	max.	
Center frequency	f_C	—	1950,0	—	MHz
Maximum insertion attenuation	α_{max}	—	1,9	2,3	dB
	1920,0 ... 1980,0 MHz				
Ripple	p-p	—	0,8	1,2	dB
	1920,0 ... 1980,0 MHz				
Input VSWR		—	1,9	2,3	
	1920,0 ... 1980,0 MHz				
Output VSWR		—	1,9	2,3	
	1920,0 ... 1980,0 MHz				
Attenuation	α				
	0,0 ... 1575,0 MHz	30	35	—	dB
	1575,0 ... 1805,0 MHz	35	39	—	dB
	1805,0 ... 1880,0 MHz	25	32	—	dB
	2025,0 ... 2050,0 MHz	35	44	—	dB
	2110,0 ... 2170,0 MHz	45	50	—	dB
	2300,0 ... 2490,0 MHz	40	46	—	dB
	2490,0 ... 2740,0 MHz	35	41	—	dB
	2740,0 ... 3960,0 MHz	25	31	—	dB
	3960,0 ... 5000,0 MHz	20	25	—	dB
	5000,0 ... 6000,0 MHz	18	23	—	dB



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B9067

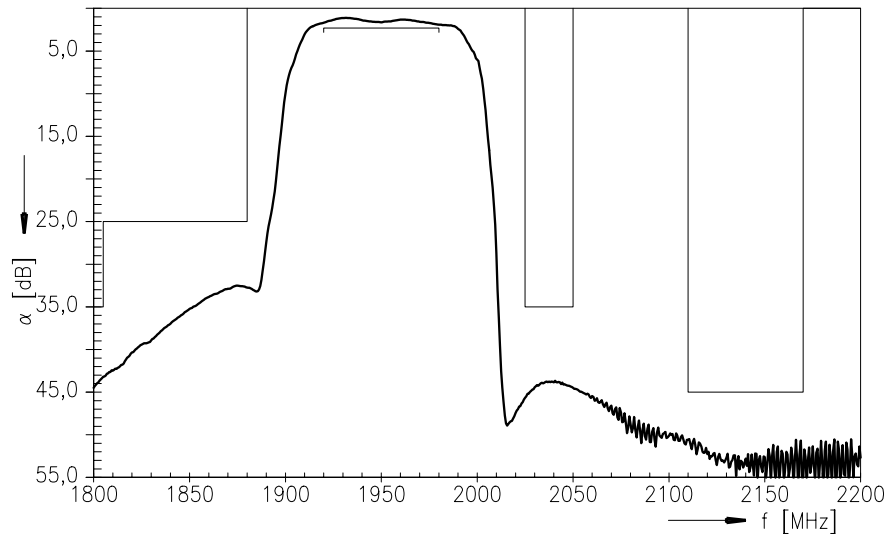
Low-Loss Filter for Mobile Communication

1950,0 MHz

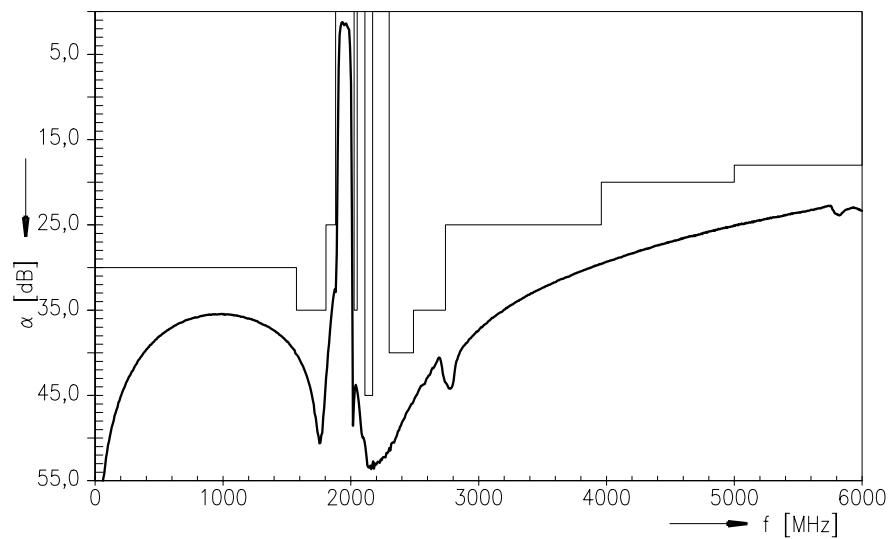
Data Sheet



Transfer function (measured at room temperature):



Transfer function (wideband, measured at room temperature):





SAW Components

B9067

Low-Loss Filter for Mobile Communication

1950,0 MHz

Data Sheet



Characteristics with Matching Network

Operating temperature range: $T = +25\text{ }^{\circ}\text{C}$
 Terminating source impedance: $Z_S = 50\ \Omega \parallel 12\ \text{nH}$
 Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ.	max.	
Center frequency	f_C	—	1950,0	—	MHz
Maximum insertion attenuation	α_{\max}	—	1,7	2,0	dB
	1920,0 ... 1980,0 MHz				
Ripple	p-p	—	0,6	0,9	dB
	1920,0 ... 1980,0 MHz				
Input VSWR		—	1,4	1,8	
	1920,0 ... 1980,0 MHz				
Output VSWR		—	1,5	1,9	
	1920,0 ... 1980,0 MHz				
Attenuation	α				
	0,0 ... 1575,0 MHz	30	34	—	dB
	1575,0 ... 1805,0 MHz	35	38	—	dB
	1805,0 ... 1880,0 MHz	25	32	—	dB
	2025,0 ... 2050,0 MHz	35	43	—	dB
	2110,0 ... 2170,0 MHz	45	49	—	dB
	2300,0 ... 2490,0 MHz	40	45	—	dB
	2490,0 ... 2740,0 MHz	35	40	—	dB
	2740,0 ... 3960,0 MHz	25	31	—	dB
	3960,0 ... 5000,0 MHz	20	25	—	dB
	5000,0 ... 6000,0 MHz	18	23	—	dB



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Low-Loss Filter for Mobile Communication

1950,0 MHz

Data Sheet



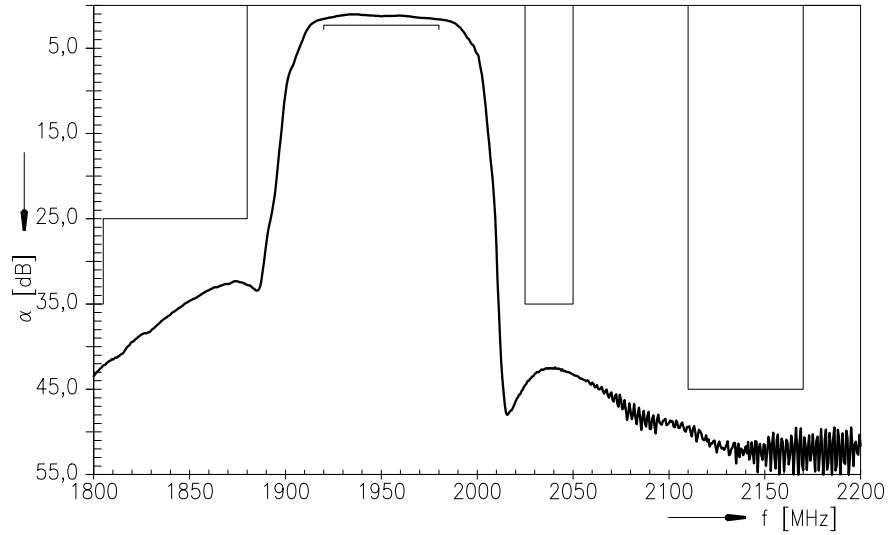
Characteristics with Matching Network

Operating temperature range: $T = -30$ to $+85$ °C
 Terminating source impedance: $Z_S = 50 \Omega \parallel 12$ nH
 Terminating load impedance: $Z_L = 50 \Omega$

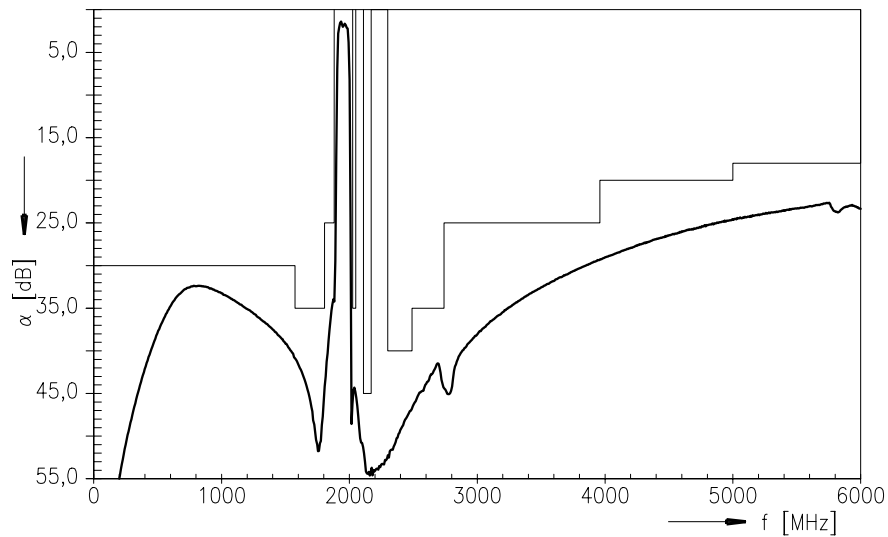
		min.	typ.	max.	
Center frequency	f_C	—	1950,0	—	MHz
Maximum insertion attenuation	α_{max}	—	1,7	2,3	dB
	1920,0 ... 1980,0 MHz				
Ripple	p-p	—	0,6	1,2	dB
	1920,0 ... 1980,0 MHz				
Input VSWR		—	1,4	1,8	
	1920,0 ... 1980,0 MHz				
Output VSWR		—	1,5	1,9	
	1920,0 ... 1980,0 MHz				
Attenuation	α				
	0,0 ... 1575,0 MHz	30	34	—	dB
	1575,0 ... 1805,0 MHz	35	38	—	dB
	1805,0 ... 1880,0 MHz	25	32	—	dB
	2025,0 ... 2050,0 MHz	35	43	—	dB
	2110,0 ... 2170,0 MHz	45	49	—	dB
	2300,0 ... 2490,0 MHz	40	45	—	dB
	2490,0 ... 2740,0 MHz	35	40	—	dB
	2740,0 ... 3960,0 MHz	25	31	—	dB
	3960,0 ... 5000,0 MHz	20	25	—	dB
	5000,0 ... 6000,0 MHz	18	23	—	dB



Transfer function with matching network (measured at room temperature):



Transfer function with matching network (wideband, measured at room temperature):





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