

Data Sheet B9007





B9007

Low-Loss Filter for Mobile Communication

1960,0 MHz

Data Sheet

Features

- Low-loss RF filter for mobile telephone PCS systems, receive path
- Usable passband 60 MHz
- No matching network required for operation at 50 Ohms
- Suitable for GPRS class 1 to 12
- Ceramic package for Surface Mounted Technology (SMT)

bottom view 4 3 0,55 Second Side view

0,075

Chip sized SAW package DCS4F

Terminals

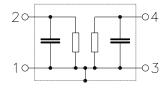
■ Ni, gold-plated

Dimensions in mm, approx. weight 0.006g

top view

Pin configuration

1 Input 3 Output 2,4 Ground



Туре	Ordering code	Marking and Package according to	Packing according to	
B9007	B39202-B9007-E610	C61157-A7-A113	F61074-V8152_Z000	

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operating temperature range	T	- 30/+ 85	°C	
Storage temperature range	$T_{\rm stg}$	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	5	V	
ESD voltage	V_{ESD}	50	V	
Input Power at				
GSM850, GSM900	P_{IN}	15	dBm	peak power of GSM signal,
GSM1800, GSM1900	P_{IN}	12	dBm	duty cycle 4:8
Tx bands				



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Characteristics

 $T = +25 \,^{\circ}\text{C}$ Operating temperature range: $Z_{\rm S} = 50 \ \Omega$ $Z_{\rm L} = 50 \ \Omega$ Terminating source impedance: Terminating load impedance:

				min.	typ.	max.	
Center frequency			$f_{\mathbb{C}}$	_	1960,0	_	MHz
Maximum insertion attenuation 1930,01990,0 MHz			α_{max}	_	2,8	3,3	dB
	1000,0	1411 12	A or		2,0	0,0	u.b
Amplitude ripple (p-p) 1930,0	1990,0	MHz	Δα	_	1,0	1,6	dB
Input return loss)1990,0	MHz		_	11	7	dB
Output return loss)1990,0	MHz		_	12	7	dB
Attenuation			α				
0,0	•	MHz		30	41	_	dB
1700,0 2050,0		MHz MHz		20 22	24 26	_	dB dB
2400,0	4000,0	MHz		30	36	_	dB
4000,0)6000,0	MHz		22	29	_	dB



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Characteristics

Operating temperature range: T = -30 to +85 °C

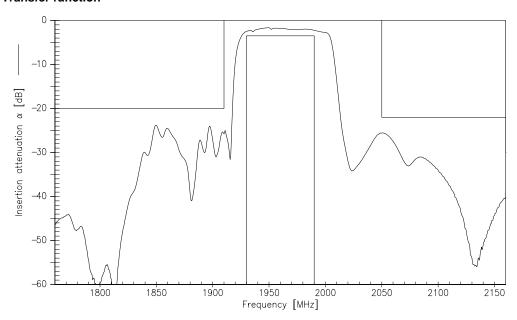
Terminating source impedance: $Z_{\rm S} = 50~\Omega$ Terminating load impedance: $Z_{\rm L} = 50~\Omega$

				min.	typ.	max.	
Center frequency			$f_{\mathbb{C}}$	_	1960,0	_	MHz
Maximum insertion attenuation			α_{max}				
1930,0	1990,0	MHz		_	2,9	3,5	dB
Amplitude ripple (p-p)		Δα					
1930,0	1990,0	MHz		_	1,2	1,8	dB
Input return loss							
1930,0 Output return loss	1990,0	MHz		_	9	7	dB
1930,0	1990,0	MHz		_	10	7	dB
Attenuation			α				
0,0	1700,0	MHz		30	41	_	dB
1700,0	1910,0	MHz		20	24	_	dB
2050,0	2400,0	MHz		22	26	_	dB
2400,0	4000,0	MHz		30	36	_	dB
4000,0	6000,0	MHz		22	29	_	dB

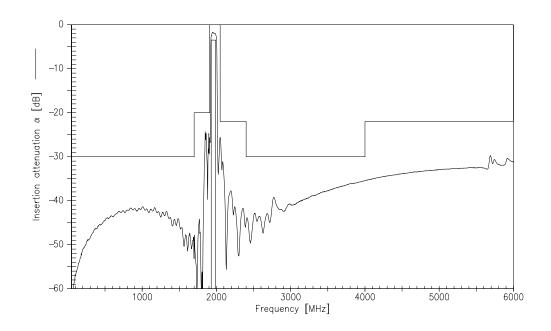




Transfer function



Transfer function (wide band)





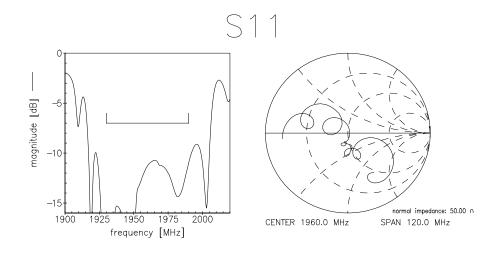
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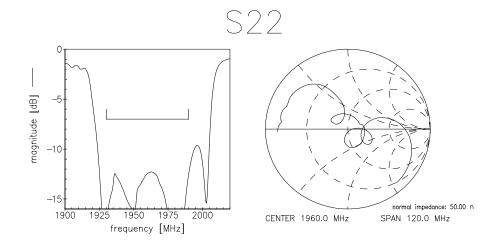
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Reflection functions







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