

Data Sheet B9007





B9007

Low-Loss Filter for Mobile Communication

1960,0 MHz

Data Sheet

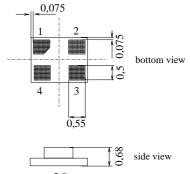
Features

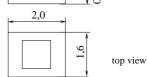
- Low-loss RF filter for mobile telephone PCS systems, receive path
- Usable passband 60 MHz
- No matching network required for operation at 50 Ohms
- Suitable for GPRS class 1 to 12
- Ceramic package for Surface Mounted Technology (SMT)

Terminals

■ Ni, gold-plated

Chip sized SAW package DCS4F

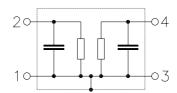




Dimensions in mm, approx. weight 0.006g

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	· <i>T</i>	- 30/+ 85	°C	
Storage temperature range	$T_{ m stg}$	- 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				



B9007

Low-Loss Filter for Mobile Communication

1960,0 MHz

Data Sheet

Characteristics

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

				min.	typ.	max.	
Center frequency			$f_{\mathbb{C}}$	_	1960,0	_	MHz
Maximum insertion attenuat	ion		α_{max}				
1930,0	1990,0	MHz		_	2,8	3,3	dB
Amplitude ripple (p-p)			Δα				
1930,0	1990,0	MHz		-	1,0	1,6	dB
Input return loss							
1930,0 Output return loss	1990,0	MHz		_	11	7	dB
•	1990,0	MHz		_	12	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



B9007

Low-Loss Filter for Mobile Communication

1960,0 MHz

Data Sheet

Characteristics

Operating temperature range: $T = -30 \text{ to } +85 \text{ }^{\circ}\text{C}$

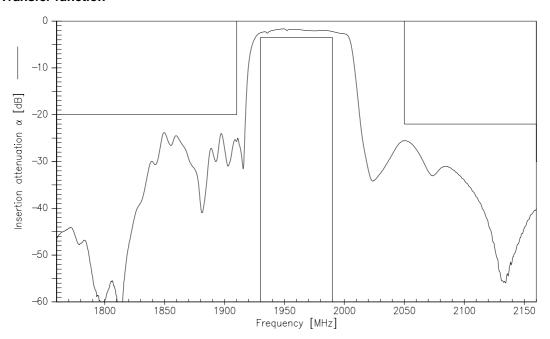
Terminating source impedance: $Z_{\rm S}=50~\Omega$ Terminating load impedance: $Z_{\rm L}=50~\Omega$

				min.	typ.	max.	
Center frequency			$f_{\mathbb{C}}$	_	1960,0	_	MHz
Maximum insertion attenuation			α_{max}				
	1930,01990,0) MHz		_	2,9	3,5	dB
Amplitude ripple (p-p)		$\Delta \alpha$					
	1930,01990,0) MHz		_	1,2	1,8	dB
Input return loss						_	
Output return loss	1930,01990,0) MHz		_	9	7	dB
•	1930,01990,0) MHz		_	10	7	dB
Attenuation			α				
	0,01700,0) MHz		30	41	_	dB
	1700,01910,0) MHz		20	24	_	dB
	2050,02400,0) MHz		22	26	_	dB
	2400,04000,0) MHz		30	36	_	dB
	4000,06000,0) MHz		22	29	_	dB

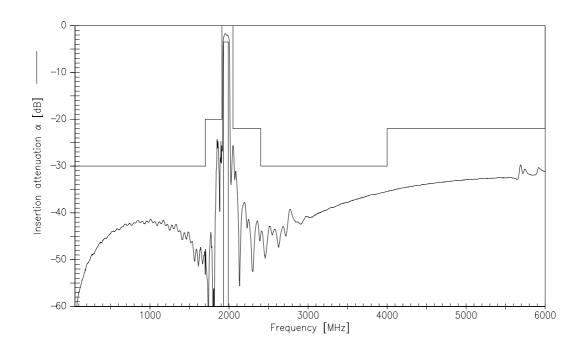


SAW Components Low-Loss Filter for Mobile Communication Data Sheet B9007 1960,0 MHz

Transfer function



Transfer function (wide band)





B9007

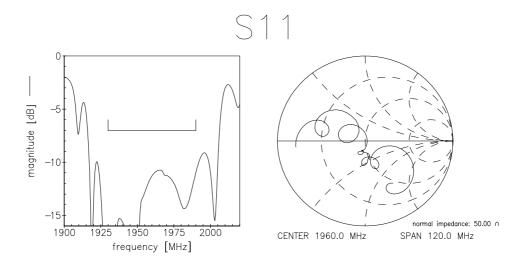
Low-Loss Filter for Mobile Communication

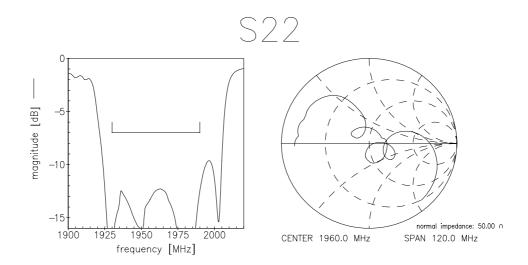
1960,0 MHz

Data Sheet



Reflection functions







Low-Loss Filter for Mobile Communication

1960,0 MHz

Data Sheet



Published by EPCOS AG Surface Acoustic Wave Components Division, SAW MC WT P.O. Box 80 17 09, 81617 Munich, GERMANY

© EPCOS AG 2002. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.