

# **SAW Components**

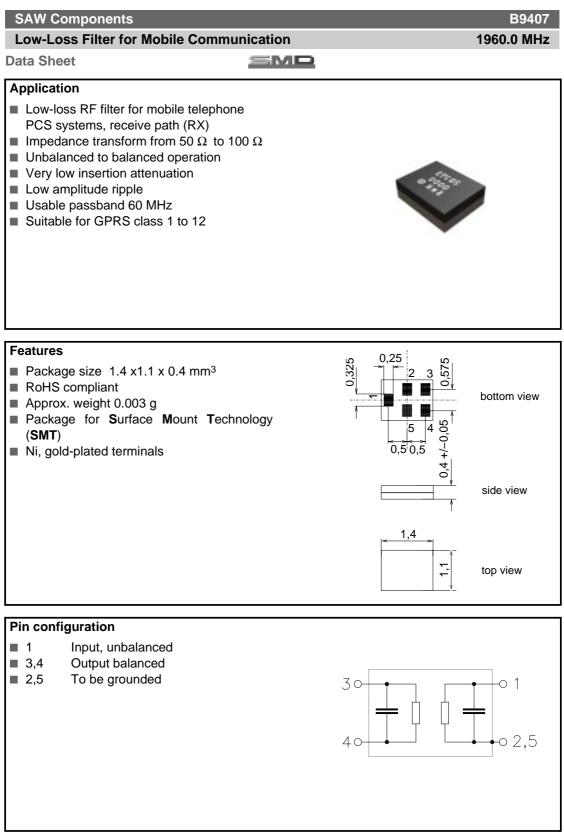
SAW Rx Filter GSM 1900

Series/Type: Ordering code: B9407 B39202-B9407-K610

Date: Version: Nov 17, 2005 2.0

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Please read *cautions and warnings and important notes* at the end of this document.

Nov 17, 2005

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SAW Compo	nents						B9407
Low-Loss Fil	ter for Mobile Com	munic	ation				1960.0 MHz
Data Sheet		2	SM				
Characteristics	i						
Operating tempe Terminating sou Terminating load	rce impedance:		$T = Z_S = Z_L =$	–10 to - 50Ω 100Ω	+85 °C ∥12 nH (ba	alanced)	
				min.	typ. @ 25°C	max.	
Center frequen	су		f <sub>C</sub>		1960	_	MHz
Maximum inser	tion attenuation 1930.0 1990.0	MHz	$\alpha_{max}$	_	2.0	3.2	dB
Amplitude ripp	<b>le</b> (p-p) 1930.0 1990.0	MHz	Δα	—	0.8	1.6	dB
Input VSWR	1930.0 1990.0	MHz		—	1.7	2.3	
Output VSWR	1930.0 1990.0	MHz		—	1.7	2.3	
Output amplitu	<b>de balance</b> ( S <sub>31</sub> /S <sub>21</sub> 1930.0 1990.0	) MHz		-1.5	-0.6/0.6	1.5	dB
Output phase b	<b>palance</b> (φ(S <sub>31</sub> )–φ(S <sub>21</sub> ) 1930.0 1990.0	(*H80)+180) MHz	)	-10	6/3	10	•
Common mode	suppression		S <sub>cs21</sub>				
	824.0    995.0     1648.0    1990.0     1930.0    1990.0     3296.0    3980.0	MHz MHz MHz MHz	- 6821	20 20 20 20	42 26 26 31	  	
Attenuation			α				
	0.0  1830.0   1830.0  1910.0   2010.0  2070.0   2070.0  2400.0   2400.0  2500.0   2500.0  4000.0   4000.0  6000.0	MHz MHz MHz MHz MHz MHz MHz		30 10 28 40 30 30	40 22 17 33 45 36 40		



SAW Components		B9407
Low-Loss Filter for Mobi	e Communication	1960.0 MHz
Data Sheet	SMD	

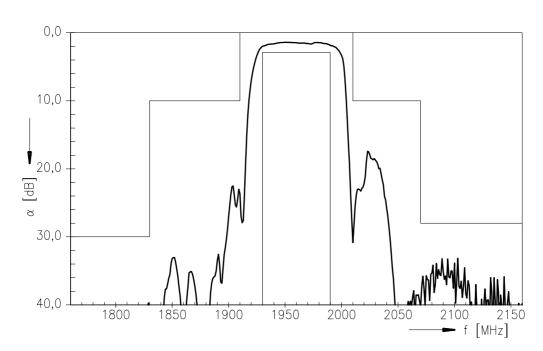
## Maximum ratings

Operable temperature range	Т	-30/+85	°C	
Storage temperature range	T <sub>stg</sub>	-40/+85	°C	
DC voltage	$V_{DC}$	5	V	
ESD voltage	V <sub>ESD</sub>	50 <sup>1)</sup>	V	machine model, 10 pulses
Input Power at				
GSM850, GSM900	P <sub>IN</sub>	15	dBm	effective power in the on-state,
GSM1800, GSM1900	P <sub>IN</sub>	15	dBm	duty cycle 4:8
Tx bands				

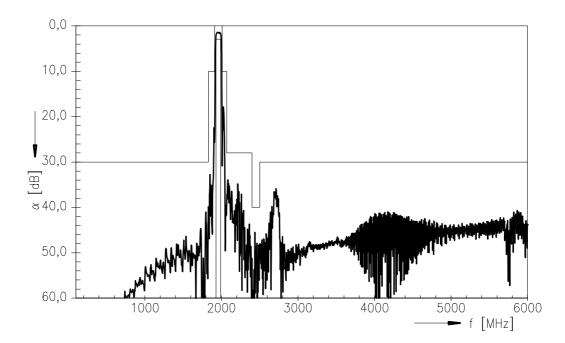
<sup>1)</sup> acc. to JESD22-A115A (machine model), 10 negative & 10 positive pulses.



**Transfer function** 



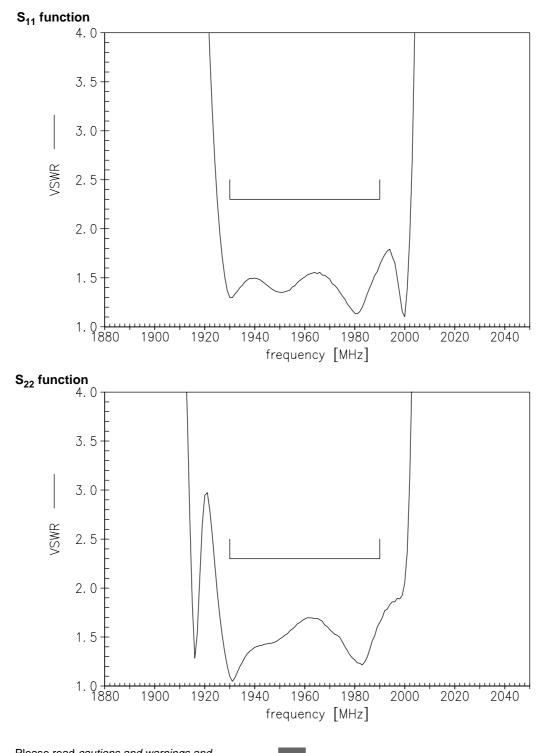
### **Transfer function**

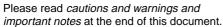


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SAW Components		B9407
Low-Loss Filter for Mobile Commu	nication	1960.0 MHz
Data Sheet	SMD	

Туре	B9407	
Ordering code	B39202-B9407-K610	
Marking and Package	C61157-A8-A1	
Packaging	F61074-V8212-Z000	
Date Codes	L_1126	
S-Parameters	B9407_NB.s3p	
	B9407_WB.s3p	
Soldering profile	S_6001	

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com .

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