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# **SAW Components**

SAW Rx Filter GSM 1900

Series/Type: Ordering code: B9403 B39202-B9403-K610

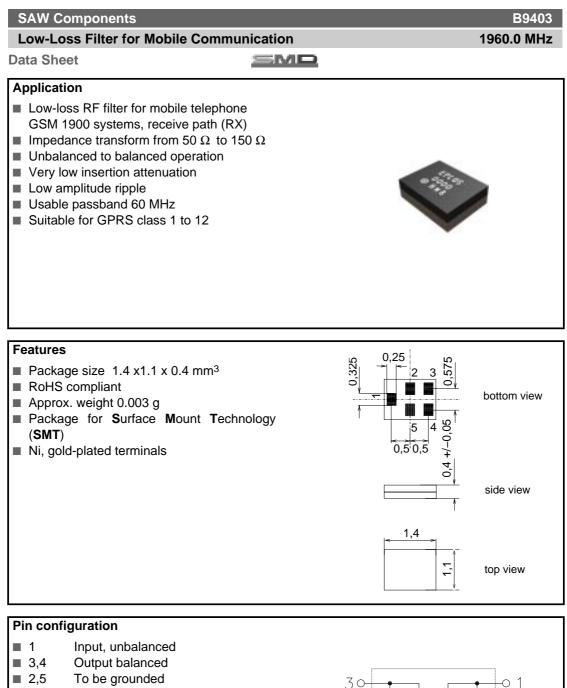
Date: Version: Oct 21, 2005

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SAW Components					B9403
Low-Loss Filter for Mobile Communi	cation				1960.0 MHz
Data Sheet	=MI				
Characteristics					
Operating temperature range: Terminating source impedance: Terminating load impedance:	$T = Z_S = Z_L =$	–20 to · 50Ω 150 Ω	+75 °C    18 nH (ba	alanced)	
		min.	typ. @ 25°C	max.	
Center frequency	f <sub>C</sub>	—	1960	—	MHz
Maximum insertion attenuation 1930.0 1990.0 MHz	α <sub>max</sub>	_	1.6	2.6	dB
Amplitude ripple (p-p) 1930.0 1990.0 MHz	Δα	_	0,7	1.4	dB
Input VSWR 1930.0 1990.0 MHz	<u>.</u>	_	1.7	2.2	
Output VSWR 1930.0 1990.0 MHz	<u>-</u>	_	1.7	2.2	
Output amplitude balance ( S <sub>31</sub> /S <sub>21</sub>  ) 1930.0 1990.0 MHz	<u>.</u>	-1.2	-0.6/0.5	1.2	dB
Output phase balance (φ(S <sub>31</sub> )–φ(S <sub>21</sub> )+180 1930.0 1990.0 MHz		-10	-1/+4	10	٥
Attenuation	α				
0.0 1510.0 MHz 1510.0 1830.0 MHz 1830.0 1850.0 MHz 1850.0 1890.0 MHz 1890.0 1910.0 MHz 2010.0 2070.0 MHz 2070.0 2400.0 MHz 2400.0 3860.0 MHz 3860.0 3980.0 MHz 3980.0 5790.0 MHz		40 30 26 23 12 11.5 27 35 28 40 28 35	46 37 32 28 18 12.5 29 42 33 49 42 45		dB dB dB dB dB dB dB dB dB dB dB dB dB d



SAW Components		B9403
Low-Loss Filter for Mobile Communication		1960.0 MHz
Data Sheet	SMD	

### Maximum ratings

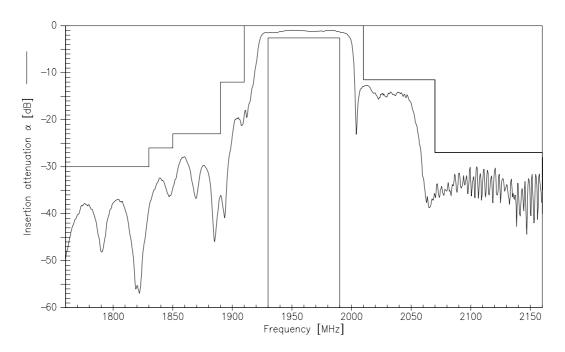
Operable temperature range	Т	-30/+85	°C	
Storage temperature range	T <sub>stg</sub>	-40/+85	°C	
DC voltage	$V_{DC}$	5	V	
ESD voltage	V <sub>ESD</sub>	50 <sup>1)</sup>	V	machine model, 10 pulses
Input Power at GSM850, GSM900 GSM1800, GSM1900 Tx bands	P <sub>IN</sub> P <sub>IN</sub>	15 15	dBm dBm	effective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

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

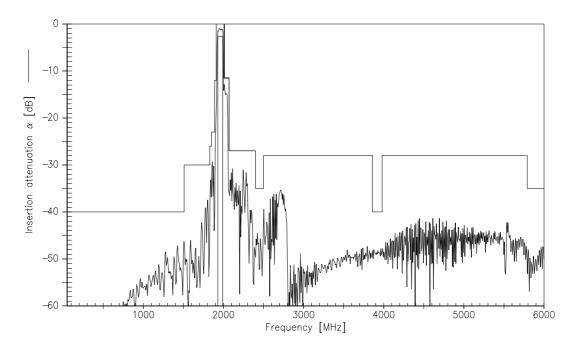


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Low-Loss Filter for Mo	bile Communication	1960.0 MHz
Data Sheet	SMD	

**Transfer function** 

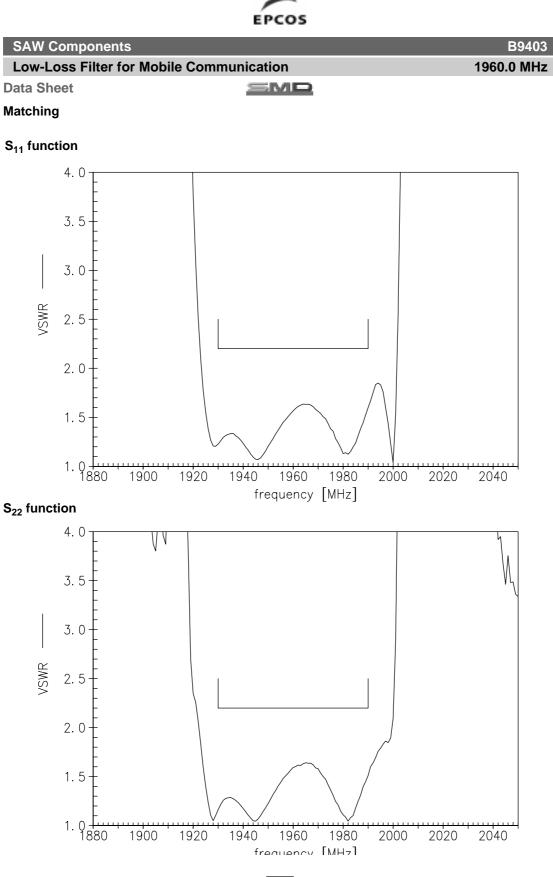


#### **Transfer function**



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

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SAW Components		B9403
Low-Loss Filter for Mot	bile Communication	1960.0 MHz
Data Sheet	SMD	

Туре	B9403	
Ordering code	B39202-B9403-K610	
Marking and Package	C61157-A8-A1	
Packaging	F61074-V8212-Z000	
Date Codes	L_1126	
S-Parameters	B9403_NB.s3p	
	B9403_WB.s3p	
Soldering profile	S_6001	

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

#### Published by EPCOS AG

# Surface Acoustic Wave Components Division

## P.O. Box 80 17 09, 81617 Munich, GERMANY

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