

SAW Components

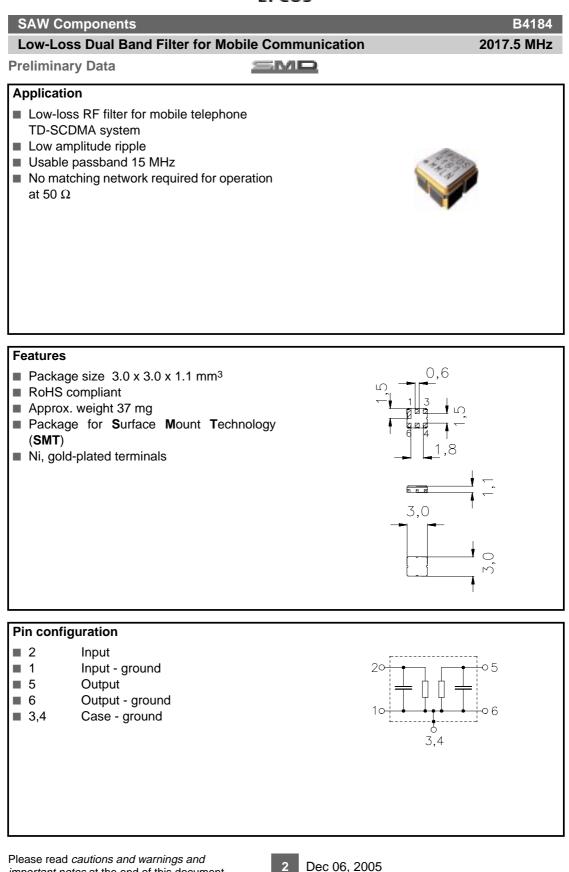
SAW RF Filter

Series/Type: Ordering code: B4184 B39202-B4184-U410

Date: Version: Dec 06, 2005 1

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important notes at the end of this document.

Dec 06, 2005



SAW Components						B4184
Low-Loss Dual Band Filter for Mobile Communication					2017.5 MHz	
Preliminary Data	2	≡MI				
Characteristics						
Operating temperature range:		T =	-35 to -	⊦75 °C		
Terminating source impedance:		$Z_{\rm S}$ =	50 Ω			
Terminating load impedance:		$Z_{\rm L}$ =				
			min.	typ.	max.	1
				@ 25°C		
Center frequency		f_{C}		2107.5		MHz
Maximum insertion attenuation		$lpha_{max}$				
2010.0 2025.0	MHz			2.6	3.9 ¹⁾	dB
Amplitude ripple (p-p)		$\Delta \alpha$				
2010.0 2025.0	MHz		—	0.1	1.4 ²⁾	dB
Input VSWR						
2010.0 2025.0	MHz		—	1.5	1.9	
Output VSWR						
2010.0 2025.0	MHz			1.8	2.1	
Attenuation		α				
0.0 1840.0	MHz		29	32	—	dB
1840.0 1980.0	MHz		13 ³⁾	19	—	dB
1980.0 1995.0	MHz		3.5 ⁴⁾	9	—	dB
2040.0 2095.0	MHz		3.5 ⁵⁾	11	—	dB
2095.0 2120.0	MHz		17	19	—	dB
2120.0 2160.0	MHz		20	23	—	dB
2160.0 2385.0	MHz		31	33	_	dB
2385.0 2410.0 2410.0 4000.0	MHz MHz		32 22	35 26		dB dB
4000.0 6000.0	MHz		10	20 15	_	dB
	1011 12			10		

¹⁾ 2.9 dB max. at 25 °C and 3.5 dB max. at -20 .. +55 °C ²⁾ 0.4 dB max. at 25 °C and 1.0 dB max. at -20 .. +55 °C

³⁾ 17 dB min. attenuation at 25 °C and 14 dB min. attenuation at -20 .. +55 °C ⁴⁾ 5 dB min. attenuation at 25 °C and 4 dB min. attenuation at -20 .. +55 °C ⁵⁾ 8 dB min. attenuation at 25 °C and 5 dB min. attenuation at -20 .. +55 °C

3



SAW Components		B4184
Low-Loss Dual Band Filter for Mobile Communication		2017.5 MHz
Preliminary Data	<u>smd</u>	

Maximum ratings

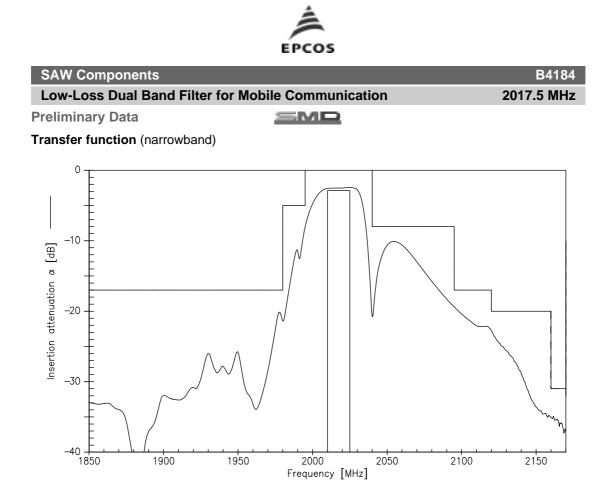
Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	5	V	
ESD voltage	V_{ESD}	50 ¹⁾	V	machine model, 10 pulses
Source power (cw)	Ps	5	dBm	source and load impedance 50 Ω
		15	dBm	0.1% of 5 ms frame

 $^{1)}\,$ acc. to JESD22-A115A (machine model), 10 negative & 10 positive pulses.

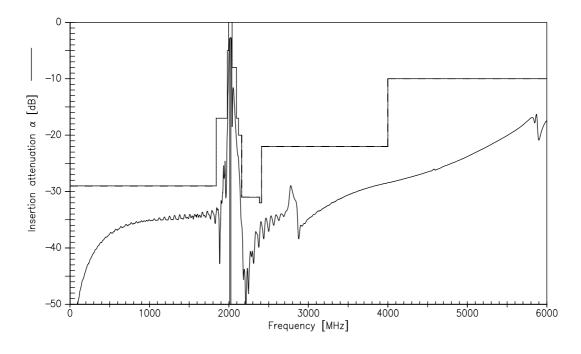
Please read *cautions and warnings and important notes* at the end of this document.

Dec 06, 2005

4



Transfer function (wideband)



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5 Dec 06, 2005



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Low-Loss Dual Band Filter for Me	obile Communication	2017.5 MHz
Preliminary Data	SMD	

Туре	B4184	
Ordering code	B39202-B4184-U410	
Marking and Package	C61157-A7-A67	
Packaging	F61074-V8168-Z000	
Date Codes	L_1126	
S-Parameters	B4184_NB.s2p	
	B4184_WB.s2p	
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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