

SAW Components

Data Sheet B4183





SAW Components	B4183
Low-Loss Filter for Mobile Communication	n 1962,5 MHz
Data sheet International Inter	
Features	Ceramic package DCC6D
 Low-loss RF filter for W-CDMA mobile tell phone system, transmit path Unbalanced to balanced operation Usable passband 125MHz Ceramic Package for Surface Mounted Technology (SMT) 	
Terminals Ni, gold-plated 	
	Dimensions in mm, approx. weight 0,037 g

Pin configuration

2	Input, unbalanced
1, 3	Input ground
4, 6	Output, balanced
5	To be grounded
1, 3, 5	Case ground



Туре	Ordering code	Marking and Package according to	Packing according to
B4183	B39202-B4183-U510	C61157-A7-A68	V61074-V8089-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 30 / + 80	°C	
Storage temperature range	T _{sta}	– 40 / + 85	°C	
DC voltage	$V_{\rm DC}$	3	V	
ESD voltage	V_{ESD}^{*}	50*	V	Machine Model, 10 pulses
Source power	$P_{\rm IN}$	5	dBm	

* -acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses



				B4183
on			1962,	5 MHz
MD				
$= 25^{\circ}C$ $S = 50 \Omega$ L = 200 S	; ⊧∥3.9 nH Ω∥18.0 nH	I		
	min.	typ.	max.	
f _c		1962,5		MHz
α _{max} Iz	_	3,8	4,2	dB
Δα Iz	_	1,4	1,8	dB
α _{abs} Iz Iz Iz Iz	30 16 5 20	35 20 10 25	 	dB dB dB dB
	on $= 25^{\circ} C$ $= 50 \Omega$ $= 200 S$ f_{c} α_{max} dz $\Delta \alpha$ dz α_{abs} dz dz dz	on $ \begin{array}{c} = 25^{\circ}C \\ s = 50 \ \Omega \parallel 3.9 \text{ nH} \\ = 200 \ \Omega \parallel 18.0 \text{ nH} \\ \frac{13.9 \text{ nH}}{18.0 \text{ nH}} \\ \frac{1000 \text{ min.}}{1000 \text{ min.}} \\ \frac{1000 \text{ min.}}{1000 \text{ min.}} \\ \frac{1000 \text{ max}}{1200 \text{ max}} \\ \frac{1000 \text{ max}}{1200 \text{ max}$	on $ \begin{array}{c} $	on 1962, $f = 25^{\circ}C$ $g = 50 \Omega \parallel 3.9 \text{ nH}$ $= 200 \Omega \parallel 18.0 \text{ nH}$ $\frac{\text{min.} \text{ typ.} \text{ max.}}{f_{c}}$ $\frac{\pi}{f_{c}}$ - 1962,5 - $\frac{\pi}{f_{c}}$ - 1962,5 - $\frac{\pi}{f_{c}}$ $\frac{\pi}{f_{c}}$ - 1962,5 - $\frac{\pi}{f_{c}}$



SAW Components				B4183
Low-Loss Filter for Mobile Communication			1962	,5 MHz
Data sheet SMD				
Characteristics				
Operating temperature range: $T = -30$ Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 200 \Omega$. +80°C ∥ 3.9 nH Ω ∥ 18.0 nH	I		
	min.	typ.	max.	
Center frequency f _c	—	1962,5	—	MHz
Maximum insertion attenuationα max1900,02025,0MHz	_	4,2	4,8	dB
Amplitude ripple (p-p) Δα 1900,0 2025,0 MHz	_	1,8	2,4	dB
Absolute attenuation α _{abs} 0,0 1600,0 MHz 1600,0 1800,0 MHz 1800,0 1880,0 MHz 2110,0 6000,0 MHz	30 16 5 20	35 20 10 25	 	dB dB dB dB



Transfer function (narrowband) :



Transfer function (wideband) :



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Apr 28, 2004



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Data sheet	SMD	

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

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