

Tx IF Filters for Cellular Phones

Series/Type: B4953

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39381B4953U810		2004-05-19	2004-09-30	2004-12-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.



Withdrawn Products

The following products presented in this data sheet are being withdrawn:

B39381B4953U810

Date of withdrawal:	19-MAY-04
Deadline for last orders:	30-SEP-04
Last shipments:	31-DEC-04

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of the sales offices are given on the Internet at www.epcos.com/sales.



SAW Components

Data Sheet B4953





SAW Components		B4953
Low-Loss Filter for Mobile	Communication	380,00 MHz
Data Sheet		

Features

- Low-loss IF filter for mobile telephone, transmit path
- Balanced to balanced operation
- No matching network necessary for operation with 200 Ω input and output impedance

To be grounded

Case ground

 Ceramic Package for Surface Mounted Technology (SMT)

0,75 3,5 1,5 3,0 0,75 1,2 1,5 0,75 0,75 1,2 0,75

Gold-plated Ni

1, 3

5, 7

2, 6

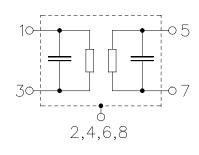
4, 8

Pin configuration

Terminals

Dimensions in mm, approx. weight 0,037 g

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Туре	Ordering code	Marking and Package according to	Packing according to
B4953	B39381-B4953-U810	C61157-A7-A72	F61074-V8101-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 20 / + 75	°C
Storage temperature range	T _{stg}	- 30 / + 85	°C
DC voltage	V _{DC}	0	V
Input power max.	P _{IN}	0	dBm

Input, balanced	
Output, balanced	



SAW Components Low-Loss Filter for Mobile Communication							380,00 MHz	
Data Sheet		2	≡N					
Characteristics								
Operating temperatur Terminating source ir Terminating load imp	npedance	:	Z_{S}	= 25°C = 200				
					min.	typ.	max.	
Center frequency				f _c	_	380,0		MHz
Maximum insertion		on 381,92	MHz	α_{max}	_	1,8	2,0	dB
Amplitude ripple (p-		381,92	MHz	Δα	_	0,4	0,7	dB
Root mean square c	-	delay variat 381,92		rms	_	1,0	1,5	degree
Attenuation				α				
	50,00	330,00	MHz		50	58	—	dB
	-	360,00			40	45		dB
		370,00			30	35	—	dB
	-	400,00			14	17	—	dB
		405,00			30	33	—	dB
		420,00			33	36		dB
	420,00	800,00	MHz		40	47		dB
Input and output ret	urn loss							
	270 00	381,92			10	12		dB



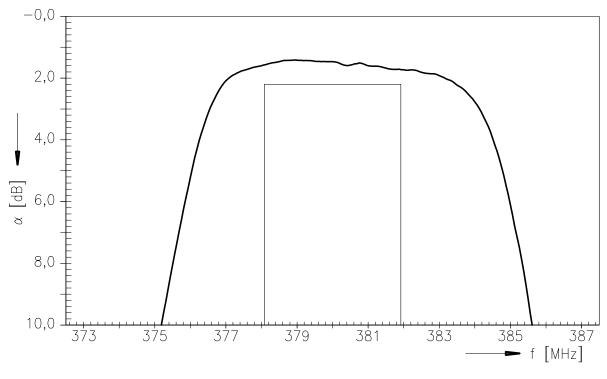
SAW Components Low-Loss Filter for Mobile Communication							380,0	0 MHz
ata Sheet		2	ΞM	Ð			,	
Characteristics								
Dperating temperatu Ferminating source Ferminating load imp	impedance	:	Z_{S}	= -20 to = 200 Ω = 200 Ω	2			
					min.	typ.	max.	
Center frequency				f _c	—	380,0		MHz
Maximum insertior	attenuatio	on		α_{max}				
	378,08	381,92	MHz		—	1,9	2,2	dB
Amplitude ripple (p	р-р)			Δα				
	378,08	381,92	MHz			0,5	0,9	dB
Root mean square	of phase d	lelay variat	ion	rms				
	378,08	381,92	MHz		_	2,0	2,5	degree
Attenuation				α				
	50,00	330,00	MHz		50	58	—	dB
	330,00	360,00	MHz		40	45	—	dB
	360,00	370,00	MHz		30	35	—	dB
	390,00	400,00	MHz		14	17	—	dB
	400,00	405,00	MHz		30	33	—	dB
	405,00	420,00	MHz		33	36	—	dB
	420,00	800,00	MHz		40	47	—	dB
nput and output re	eturn loss							
-	378 08	381,92	MHz		10	12		dB

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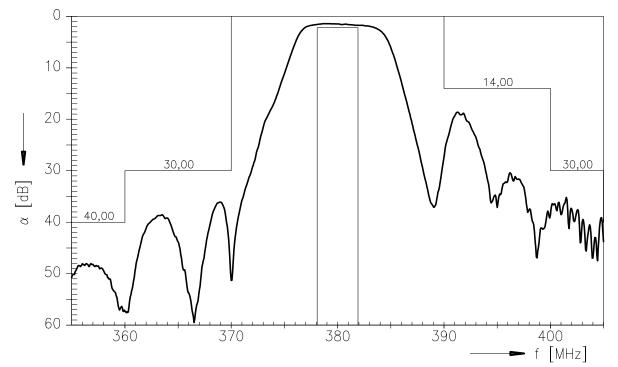


SAW Components		B4953
Low-Loss Filter for Mobile	Communication	380,00 MHz
Data Sheet	SMD	

Transfer function (pass band)



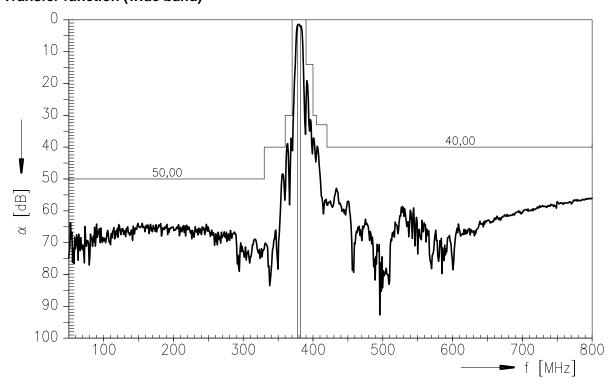
Transfer function (narrow band)





SAW Components		B4953
Low-Loss Filter for Mobile Comm	unication	380,00 MHz
Data Sheet	SMD	

Transfer function (wide band)



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SAW Components		B4953
Low-Loss Filter for Mobile (Communication	380,00 MHz
Data Sheet		

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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.