



Tx IF Filters for Cellular Phones

Series/Type: **B4944**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39181B4944Z810		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Withdrawn Products

The following products presented in this data sheet are being withdrawn:

B39181B4944Z810

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 B4944





SAW Components

B4944

Low-Loss Filter for Mobile Communication

181,80 MHz

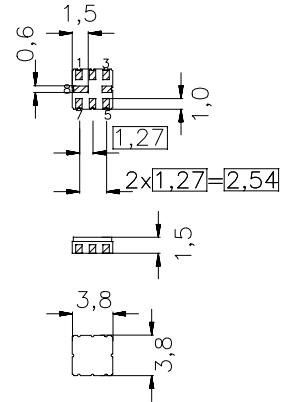
Data Sheet



Features

- Low-loss IF filter for mobile telephone TDMA systems, transmit path
- Low amplitude ripple
- Usable passbands 30 kHz
- Balanced to balanced operation
- Impedance transformation from 100 Ω to 200 Ω
- Ceramic package for Surface Mounted Technology (SMT)

Ceramic package QCC8B



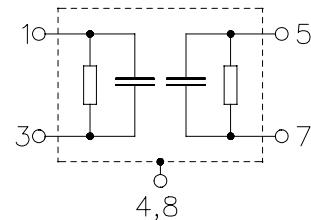
Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,07 g

Pin configuration

- 1, 3 Balanced Input
- 5, 7 Balanced Output
- 2, 6 To be grounded
- 4, 8 Case ground



Type	Ordering code	Marking and Package according to	Packing according to
B4944	B39181-B4944-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 30 / + 85	°C	
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	V_{DC}	3	V	
Source power	P_{IN}	0	dBm	source impedance 50 Ω



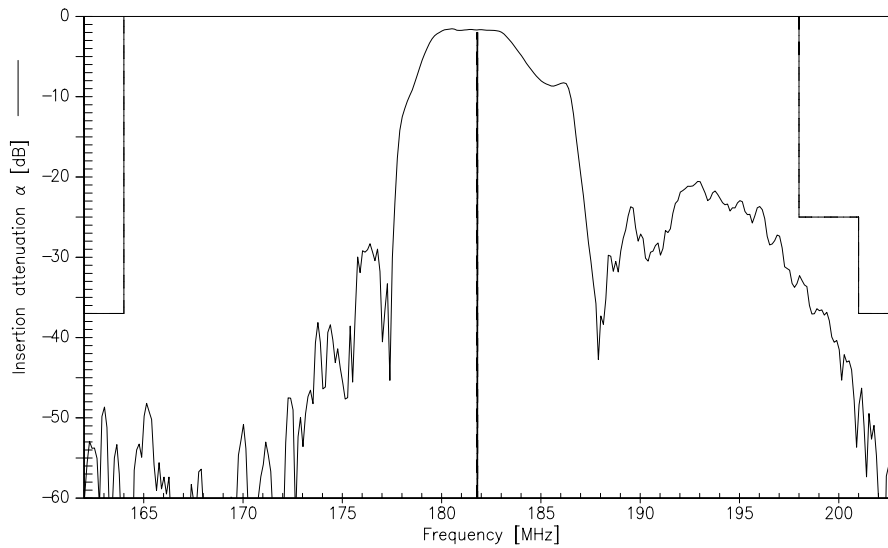
Characteristics (with matching inductor)

Operating temperature range: $T = -30$ to $+85^{\circ}\text{C}$
 Terminating source impedance: $Z_S = 100\ \Omega$
 Terminating load impedance: $Z_L = 200\ \Omega \parallel 330\ \text{nH}$

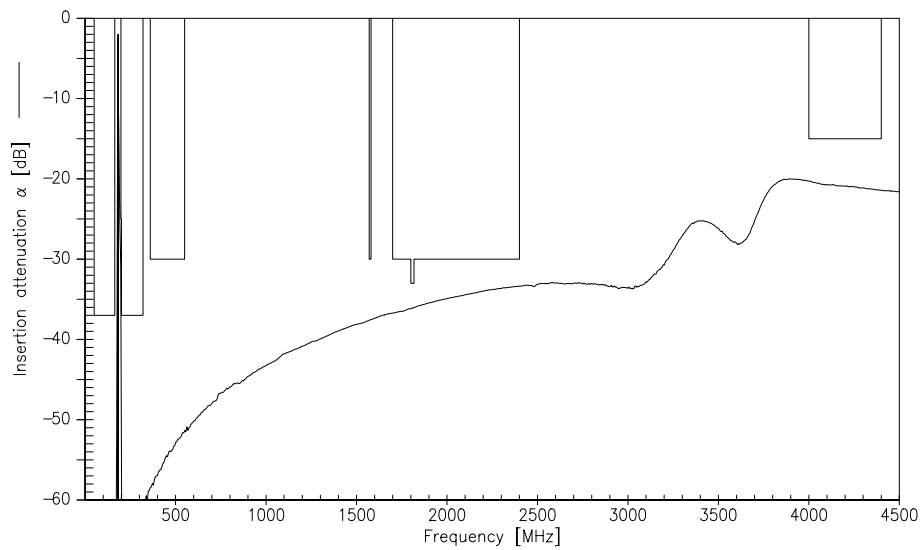
		min.	typ.	max.	
Center frequency	f_c	—	181,44	—	MHz
Maximum insertion attenuation	α_{max}				
181,785... 181,815 MHz		—	1,6	2,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
181,785... 181,815 MHz		—	0,1	0,2	dB
Attenuation	α				
50,0 ... 164,0 MHz		37,0	45,0	—	dB
198,0 ... 201,0 MHz		25,0	30,0	—	dB
201,0 ... 320,0 MHz		37,0	45,0	—	dB
360,0 ... 550,0 MHz		30,0	50,0	—	dB
1570,0 ... 1580,0 MHz		30,0	34,0	—	dB
1700,0 ... 2400,0 MHz		30,0	34,0	—	dB
1800,0 ... 1818,0 MHz		33,0	36,0	—	dB
4000,0 ... 4400,0 MHz		15,0	20,0	—	dB



Transfer function (narrowband):



Transfer function (wideband):





SAW Components

B4944

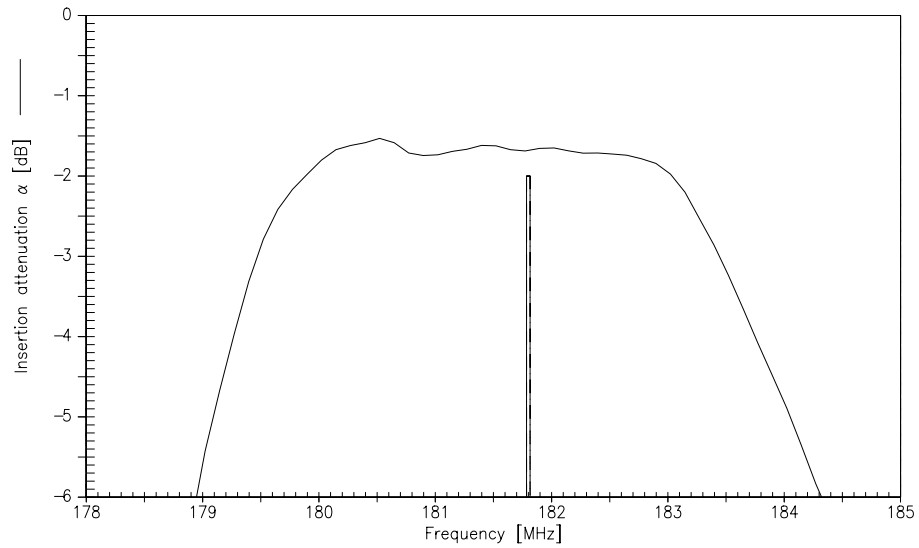
Low-Loss Filter for Mobile Communication

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Transfer function (passband, scale +0,27 MHz) :





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181,80 MHz

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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.