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The following products presented in this data sheet are being withdrawn.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

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Withdrawn Products

The following products presented in this data sheet are being withdrawn: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

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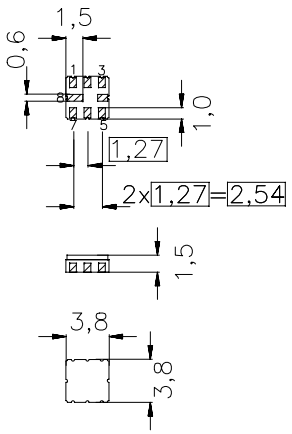
SAW Components

Data Sheet B4944

Ceramic package **QCC8B**

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 **S**urface **M**ounted **T**echnology **(SMT)**



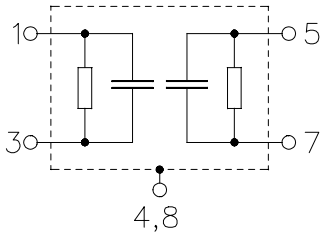
Terminals

- 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 **S**ensitive **D**evice (**ESD**)

Maximum ratings

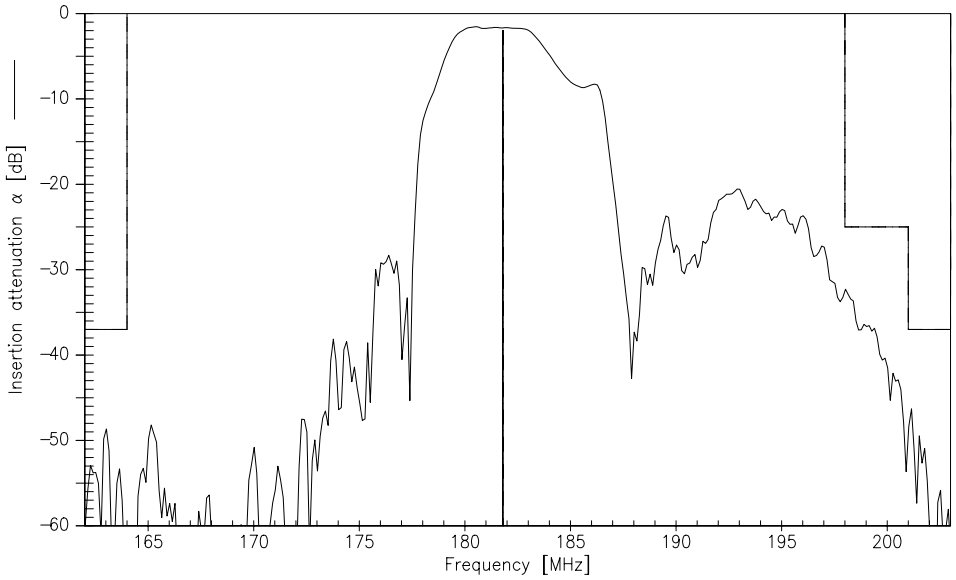
Operable temperature range	T	– 30 / + 85	˚C	
Storage temperature range	T_{stg}	– 40 / + 85	˚C	
DC voltage	V_{DC}	3	V	
Source power	P_{IN}	0	dBm	source impedance 50 Ω

Characteristics (with matching inductor)

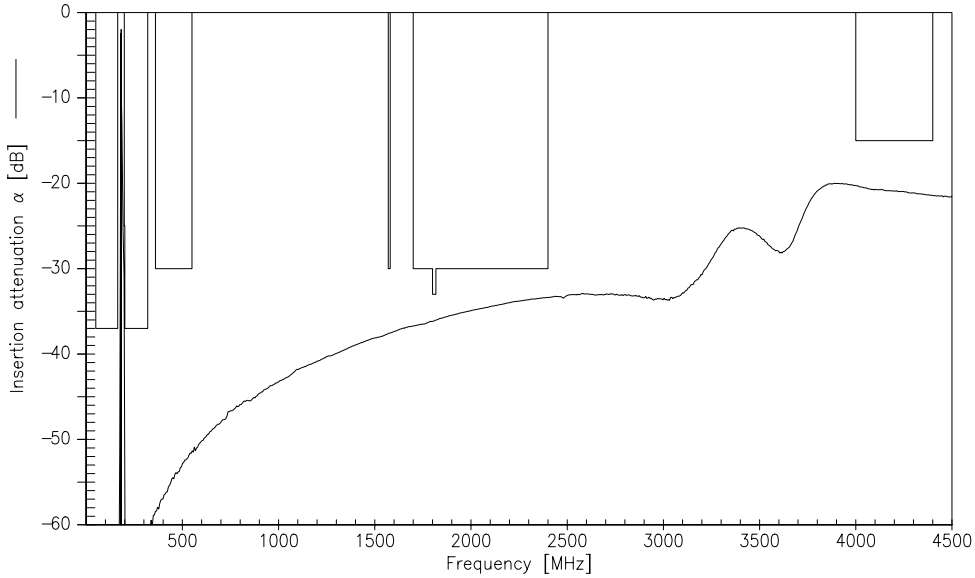
Operating temperature range: T = -30 to + 85˚C
Terminating source impedance: Z_S = 100 Ω
Terminating load impedance: Z_L = 200 Ω || 330 nH

		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

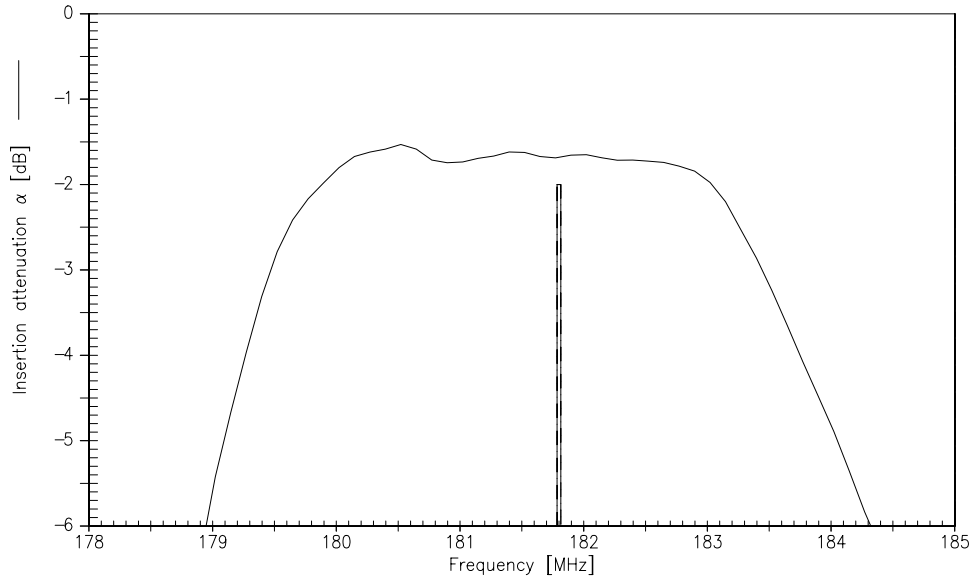
Transfer function (narrowband)**:**



Transfer function (wideband)**:**



Transfer function (passband, scale +0,27 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.

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