



SAW filters for mobile communications

Series/Type: **B7754**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39202B7754C810	B39202B9031E910	2008-03-14	2008-08-31	2008-10-15

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.



SAW Components

B7754

Low-Loss Filter for Mobile Communication

1950,0 MHz

Data Sheet



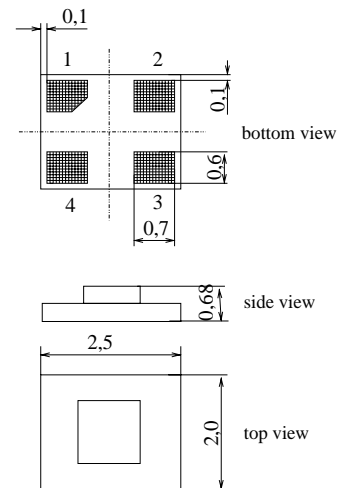
Chip sized SAW package DCS4D

Features

- Low-loss RF filter for W-CDMA mobile telephone system, transmit path
- High stopband attenuation
- Usable passband 60 MHz
- Unbalanced/unbalanced operation
- Package size: 2 mm x 2.5 mm (4 pin, diagonal pinning)

Terminals

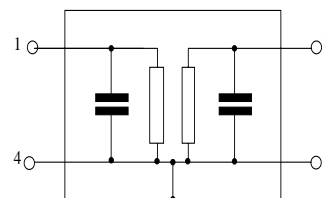
- Ni, gold-plated



Dimensions in mm, approx weight 0,012g

Pin configuration

- 1 Input
- 3 Output
- 2,4 Ground



Type	Ordering code	Marking and Package according to	Packing according to
B7754	B39202-B7754-C810	C61157-A7-A118	F61074-V8153-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 20 / + 85	°C	source impedance 50 Ω
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	V_{DC}	3	V	
Source power	P_s	10	dBm	



Data Sheet



Characteristics

Operating temperature range: $T = +25\text{ °C} \pm 2\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ.	max.	
Center frequency	f_C	—	1950,0	—	MHz
Maximum insertion attenuation	α_{max}				
	1920,0 ... 1980,0 MHz	—	2,2	2,5	dB
Ripple	p-p				
	1920,0 ... 1980,0 MHz	—	1,0	1,2	dB
Input VSWR					
	1920,0 ... 1980,0 MHz	—	1,9	2,1	
Output VSWR					
	1920,0 ... 1980,0 MHz	—	1,9	2,1	
Attenuation	α				
	0,0 ... 1670,0 MHz	26	28	—	dB
	1670,0 ... 1720,0 MHz	29	31	—	dB
	1720,0 ... 1750,0 MHz	30	32	—	dB
	1750,0 ... 1880,0 MHz	31	33	—	dB
	2025,0 ... 2050,0 MHz	35	45	—	dB
	2110,0 ... 2170,0 MHz	34	36	—	dB
	2300,0 ... 2490,0 MHz	34	36	—	dB
	2490,0 ... 2740,0 MHz	35	38	—	dB
	2740,0 ... 3960,0 MHz	30	33	—	dB
	3960,0 ... 6000,0 MHz	15	21	—	dB



Data Sheet



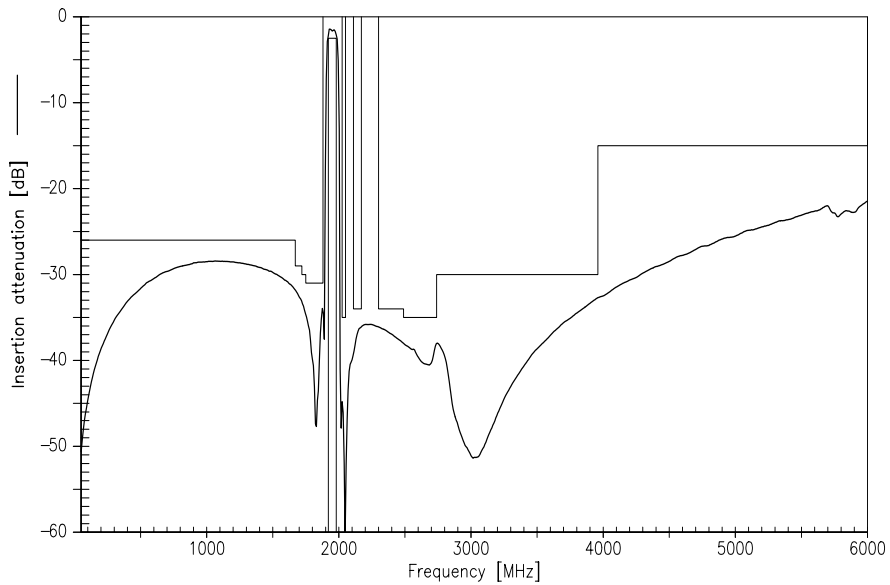
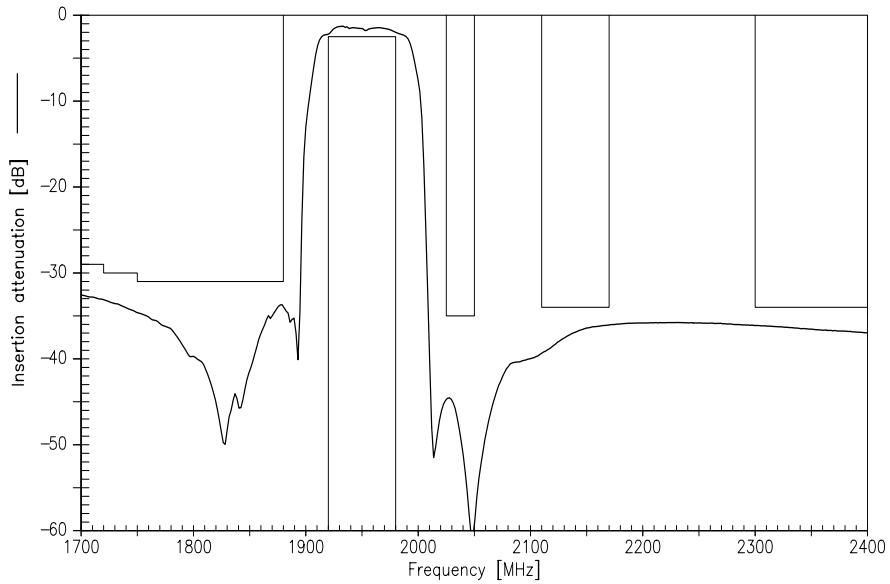
Characteristics

Operating temperature range: $T = -20$ to $+85$ °C
 Terminating source impedance: $Z_S = 50 \Omega$
 Terminating load impedance: $Z_L = 50 \Omega$

		min.	typ.	max.	
Center frequency	f_C	—	1950,0	—	MHz
Maximum insertion attenuation	α_{max}	—	2,4	2,8	dB
1920,0 ... 1980,0 MHz					
Ripple	p-p	—	1,0	1,6	dB
1920,0 ... 1980,0 MHz					
Input VSWR		—	2,0	2,2	
1920,0 ... 1980,0 MHz					
Output VSWR		—	2,0	2,2	
1920,0 ... 1980,0 MHz					
Attenuation	α				
0,0 ... 1670,0 MHz		26	28	—	dB
1670,0 ... 1720,0 MHz		29	31	—	dB
1720,0 ... 1750,0 MHz		30	32	—	dB
1750,0 ... 1880,0 MHz		31	33	—	dB
2025,0 ... 2050,0 MHz		35	45	—	dB
2110,0 ... 2170,0 MHz		34	36	—	dB
2300,0 ... 2490,0 MHz		34	36	—	dB
2490,0 ... 2740,0 MHz		35	38	—	dB
2740,0 ... 3960,0 MHz		30	33	—	dB
3960,0 ... 6000,0 MHz		15	21	—	dB



Transfer function (spec for 25°C ± 2 °C):





SAW Components

B7754

Low-Loss Filter for Mobile Communication

1950,0 MHz

Data Sheet



Published by EPCOS AG

Surface Acoustic Wave Components Division, SAW MC WT

P.O. Box 80 17 09, D-81617 München

© EPCOS AG 2003. All Rights Reserved. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

The information contained in this brochure describes the type of component and shall not be considered as guaranteed characteristics. Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

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.