



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The following products presented in this data sheet are being withdrawn.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



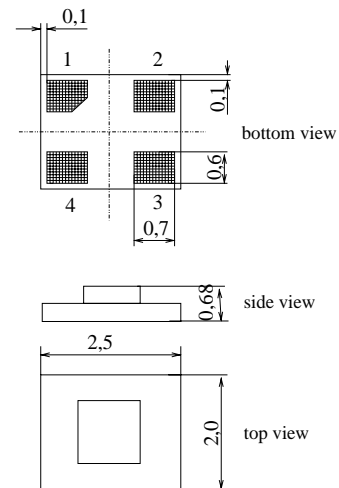
Chip sized SAW package DCS4D

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

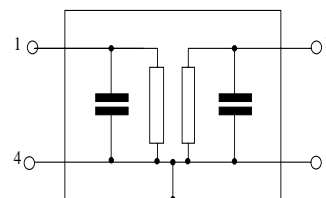
- Ni, gold-plated



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}	—	2,2	2,5	dB
1920,0 ... 1980,0 MHz					
Ripple	p-p	—	1,0	1,2	dB
1920,0 ... 1980,0 MHz					
Input VSWR		—	1,9	2,1	
1920,0 ... 1980,0 MHz					
Output VSWR		—	1,9	2,1	
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



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



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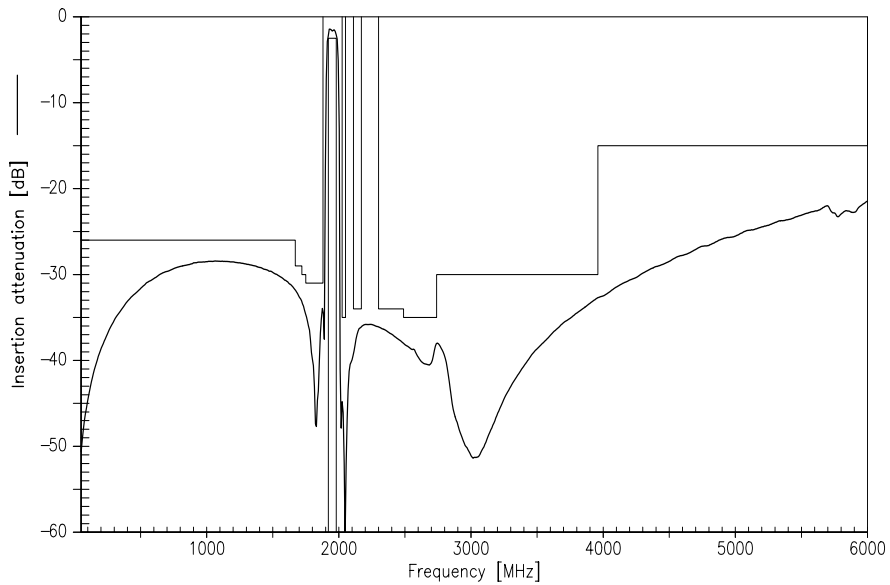
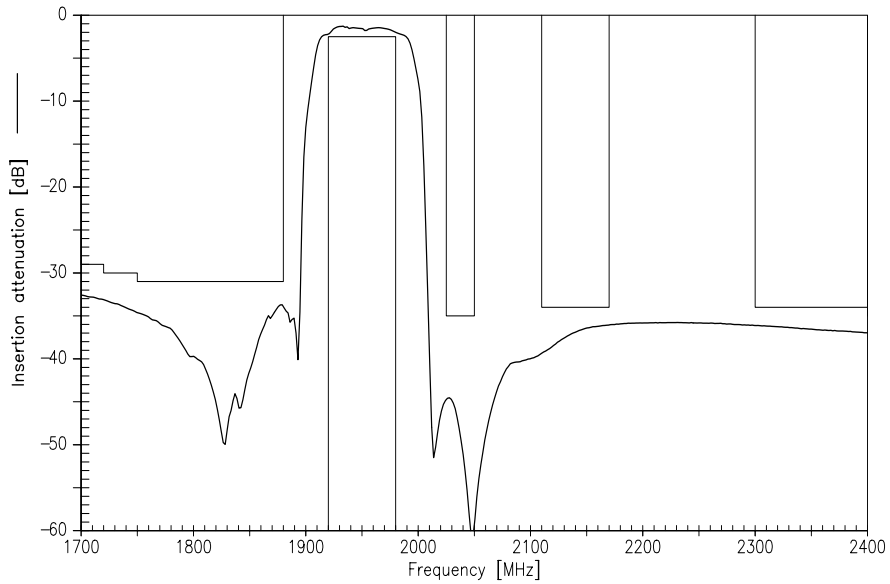
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1950,0 MHz

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Transfer function (spec for $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$):





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1950,0 MHz

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