SAW filters for mobile communications

Series/Type: B7754

The following products presented in this data sheet are being withdrawn.

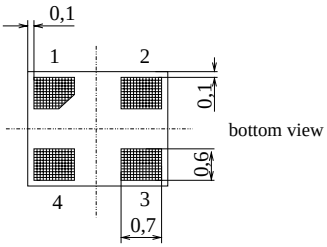
Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39202B7754C810	B39202B9031E910	2008-03-14	2008-08-31	2008-10-15

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.

Chip sized SAW package DCS4D

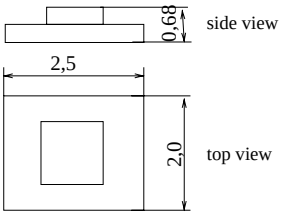
Features

- 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

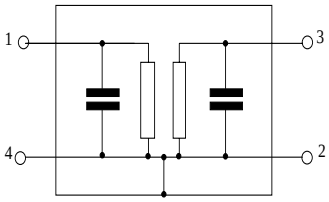
- Ni, gold-plated



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

Maximum ratings

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

Characteristics

Operating temperature range: T = +25 °C ± 2 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

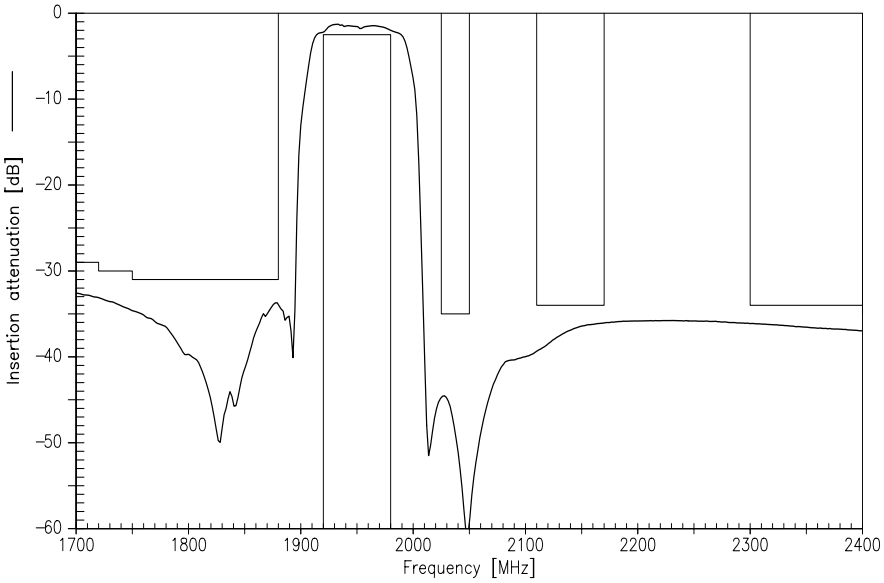
		min.	typ.	max.	
Center frequency	f_C	—	1950,0	—	MHz
Maximum insertion attenuation	α_{max}				
1920,0 ... 1980,0 MHz		—	2,2	2,5	dB
Ripple	p-p				
1920,0 ... 1980,0 MHz		—	1,0	1,2	dB
Input VSWR					
1920,0 ... 1980,0 MHz		—	1,9	2,1	
Output VSWR					
1920,0 ... 1980,0 MHz		—	1,9	2,1	
Attenuation	α				
0,0 ...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

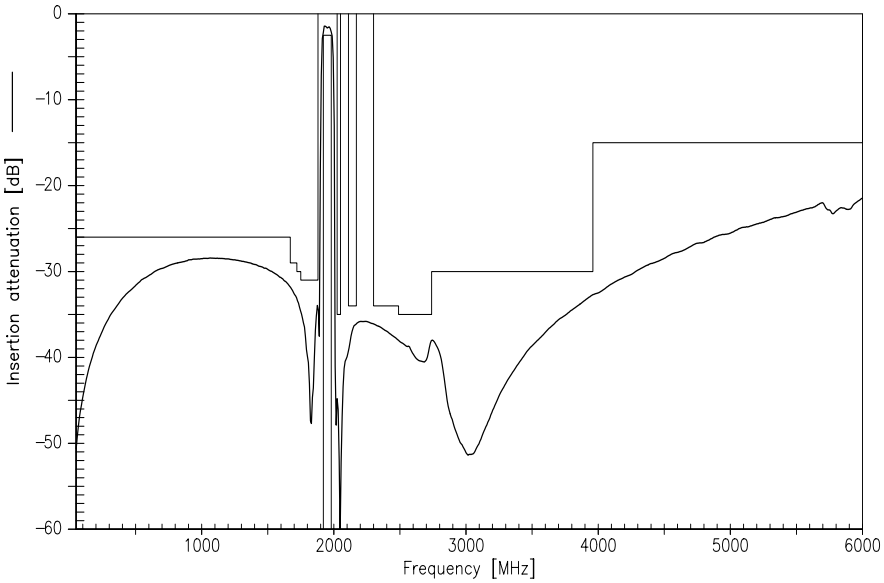
Characteristics

Operating temperature range: T = -20 to +85 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Center frequency	f_C	—	1950,0	—	MHz
Maximum insertion attenuation	α_{max}				
1920,0 ... 1980,0 MHz		—	2,4	2,8	dB
Ripple	p-p				
1920,0 ... 1980,0 MHz		—	1,0	1,6	dB
Input VSWR					
1920,0 ... 1980,0 MHz		—	2,0	2,2	
Output VSWR					
1920,0 ... 1980,0 MHz		—	2,0	2,2	
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):





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