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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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RF Filters for Cellular Phones

Series/Type: **B7749**

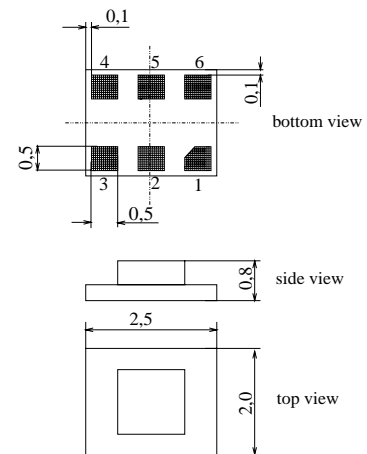
The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39182B7749C910	B39182B9402K610	2007-09-21	2007-12-31	2008-03-31

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.


 Chip sized SAW package **DCS6K**
Features

- Low-loss RF filter for mobile telephone PCN systems, receive path
- Low amplitude ripple
- Usable passband 75 MHz
- Unbalanced to balanced operation
- Impedance transformation from 50Ω to 200Ω
- Suitable for GPRS class 1 to 12
- Package for **Surface Mounted Technology (SMT)**

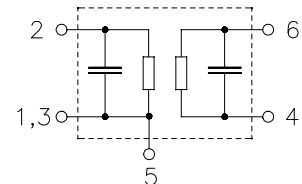

Terminals

- Gold-plated Ni

Dimensions in mm, approx. weight 0,012 g

Pin configuration

- | | |
|---------|-------------------|
| 2 | Input, unbalanced |
| 1, 3 | Input ground |
| 4, 6 | Output, balanced |
| 1, 3, 5 | To be grounded |



Type	Ordering code	Marking and Package according to	Packing according to
B7749	B39182-B7749-C910	C61157-A1-A97	F61074-V8153-Z000

Electrostatic Sensitive Device (ESD)
Maximum ratings

Operable temperature range	T	- 30 / + 85	°C	peak power of GSM signal duty cycle 4:8
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	V_{DC}	3	V	
ESD voltage	V_{ESD}	50	V	
Input power at				
GSM850, GSM900	P_{IN}	15	dBm	
GSM1800, GSM1900	P_{IN}	12	dBm	
Tx bands				

Data Sheet

Characteristics

Operating temperature range: $T = 25^{\circ}\text{C} \pm 2^{\circ}\text{C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 200\ \Omega$ (balanced) || 18 nH

		min.	typ.	max.	
Center frequency	f_C	—	1842,5	—	MHz
Maximum insertion attenuation	α_{\max}	—	2,7	3,2	dB
1805,0 ... 1880,0 MHz					
Amplitude ripple (p-p)	$\Delta\alpha$	—	1,2	1,7	dB
1805,0 ... 1880,0 MHz					
Input VSWR		—	2,3	2,5	
1805,0 ... 1880,0 MHz					
Output VSWR		—	2,0	2,2	
1805,0 ... 1880,0 MHz					
Diff. to common mode suppression	S_{sc12}	—	22	—	dB
1805,0 ... 1880,0 MHz					
855,0 ... 995,0 MHz			28	—	
1710,0 ... 1990,0 MHz			22	—	
3420,0 ... 3980,0 MHz			34	—	
Attenuation	α	40	43	—	dB
0,0 ... 1205,0 MHz					
1205,0 ... 1705,0 MHz		30	32	—	
1705,0 ... 1785,0 MHz		14	16	—	
1920,0 ... 1980,0 MHz		14	19	—	
1980,0 ... 2100,0 MHz		20	23	—	
2100,0 ... 3000,0 MHz		30	36	—	
3000,0 ... 6000,0 MHz		40	44	—	

Data Sheet

Characteristics

Operating temperature range: $T = -10$ to $+80$ °C
 Terminating source impedance: $Z_S = 50 \Omega$
 Terminating load impedance: $Z_L = 200 \Omega$ (balanced) || 18 nH

		min.	typ.	max.	
Center frequency	f_C	—	1842,5	—	MHz
Maximum insertion attenuation	α_{max}	—	3,0	3,5	dB
1805,0 ... 1880,0 MHz					
Amplitude ripple (p-p)	$\Delta\alpha$	—	1,5	2,0	dB
1805,0 ... 1880,0 MHz					
Input VSWR		—	2,3	2,5	
1805,0 ... 1880,0 MHz					
Output VSWR		—	2,0	2,2	
1805,0 ... 1880,0 MHz					
Diff. to common mode suppression	S_{sc12}	—	22	—	dB
1805,0 ... 1880,0 MHz					
855,0 ... 995,0 MHz		—	28	—	
1710,0 ... 1990,0 MHz		—	22	—	
3420,0 ... 3980,0 MHz		—	34	—	
Attenuation	α	40	43	—	dB
0,0 ... 1205,0 MHz					
1205,0 ... 1705,0 MHz		30	32	—	
1705,0 ... 1785,0 MHz		10	12	—	
1920,0 ... 1980,0 MHz		10	19	—	
1980,0 ... 2100,0 MHz		20	23	—	
2100,0 ... 3000,0 MHz		30	36	—	
3000,0 ... 6000,0 MHz		40	44	—	

Data Sheet

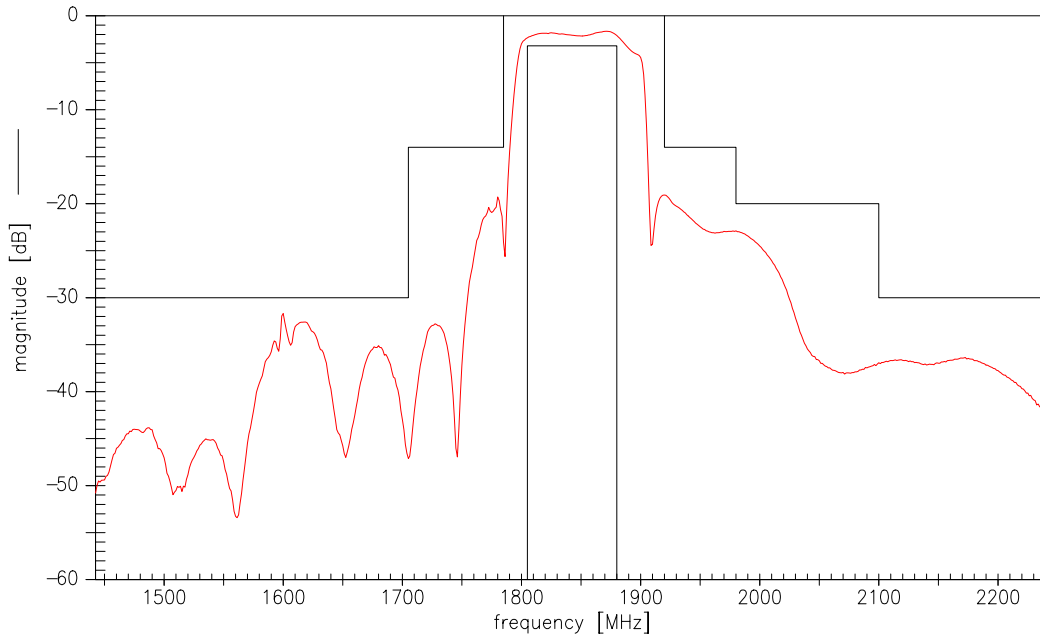
Characteristics

Operating temperature range: $T = -30$ to $+85$ °C
 Terminating source impedance: $Z_S = 50$ Ω
 Terminating load impedance: $Z_L = 200$ Ω (balanced) || 18 nH

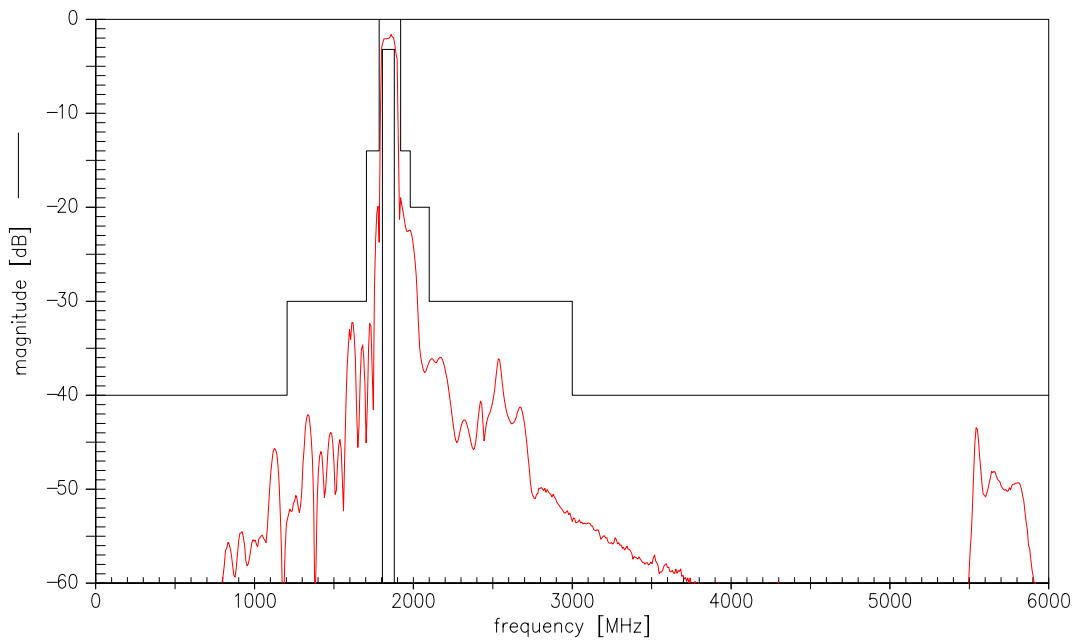
		min.	typ.	max.	
Center frequency	f_C	—	1842,5	—	MHz
Maximum insertion attenuation	α_{max}	—	3,5	4,0	dB
1805,0 ... 1880,0 MHz					
Amplitude ripple (p-p)	$\Delta\alpha$	—	2,0	2,5	dB
1805,0 ... 1880,0 MHz					
Input VSWR		—	2,4	2,6	
Output VSWR		—	2,1	2,3	
Diff. to common mode suppression	S_{sc12}	—	22	—	dB
1805,0 ... 1880,0 MHz					
855,0 ... 995,0 MHz			28	—	
1710,0 ... 1990,0 MHz			22	—	
3420,0 ... 3980,0 MHz			34	—	
Attenuation	α				
0,0 ... 1205,0 MHz		40	43	—	dB
1205,0 ... 1705,0 MHz		30	32	—	
1705,0 ... 1785,0 MHz		9	11	—	
1920,0 ... 1980,0 MHz		10	19	—	
1980,0 ... 2100,0 MHz		20	23	—	
2100,0 ... 3000,0 MHz		30	36	—	
3000,0 ... 6000,0 MHz		40	44	—	



Transfer function



Transfer function (wide band)



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This brochure replaces the previous edition.

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