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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
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RF Filters for Cellular Phones

Series/Type: B4167

The following products presented in this data sheet are being withdrawn.

| Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39182B4167U510	B39182B4142U410	2009-04-03	2009-07-15	2009-10-15

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.

Ceramic package **DCC6D**

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
- Package for **S**urface **M**ounted **T**echnology (**SMT**)
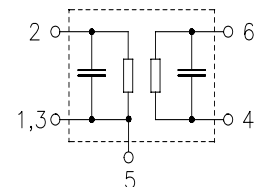- Ceramic SMD package

Terminals

- Ni, gold-plated
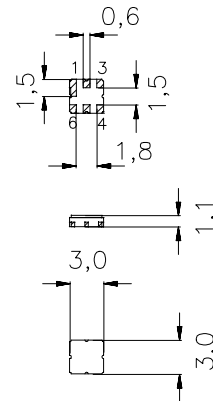
Dimensions in mm, approx. weight 0,037 g

Pin configuration

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

Type	Ordering code	Marking and Package according to	Packing according to
B4167	B39182-B4167-U510	C61157-A7-A68	F61074-V8089-Z000

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

Maximum ratings

Operable temperature range	T	– 20 / + 75	°C	
Storage temperature range	T_{stg}	– 40 / + 85	°C	
DC voltage	V_{DC}	5	V	
Input power max.				source/load impedance 50/200 Ω peak power of GSM signal, duty cycle 2 : 8
1710 ... 1785 MHz	P_{IN}	11	dBm	
1805 ... 1880 MHz	P_{IN}	11	dBm	
elsewhere	P_{IN}	0	dBm	

Data Sheet

Characteristics

Operating Temperature Range: T = +25 ± 2 °C
Terminating source impedance: Z_S = 50Ω (unbalanced)
Terminating load impedance: Z_L = 200Ω ‖ 22 nH (balanced)

		min.	typ.	max.	
Center frequency	f_C	—	1842,5	—	MHz
Maximum insertion attenuation	α_{max}				
1805,0 ... 1880,0 MHz		—	2,0	3,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1805,0 ... 1880,0 MHz		—	0,9	2,0	dB
Input VSWR					
1805,0 ...1880,0 MHz		—	1,8	2,3	
Output VSWR					
1805,0 ...1880,0 MHz		—	1,8	2,3	
Output amplitude balance ($|S_{31}/S_{21}|$)					
1805,0 ...1880,0 MHz		-1,5	-1,1 / +0,6	1,5	dB
Output phase balance ($\phi(S_{31})-\phi(S_{21})+180°$)					
1805,0 ...1880,0 MHz		-12	+/- 6	12	°
Attenuation	α				
0,0 ... 1000,0 MHz		40	50	—	dB
1000,0 ... 1550,0 MHz		30	40	—	dB
1550,0 ... 1705,0 MHz		25	28	—	dB
1705,0 ... 1785,0 MHz		12	18	—	dB
1920,0 ... 1980,0 MHz		12	17	—	dB
1980,0 ... 2010,0 MHz		18	22	—	dB
2010,0 ... 2500,0 MHz		20	26	—	dB
2500,0 ... 3840,0 MHz		25	35	—	dB
3840,0 ... 6000,0 MHz		20	32	—	dB

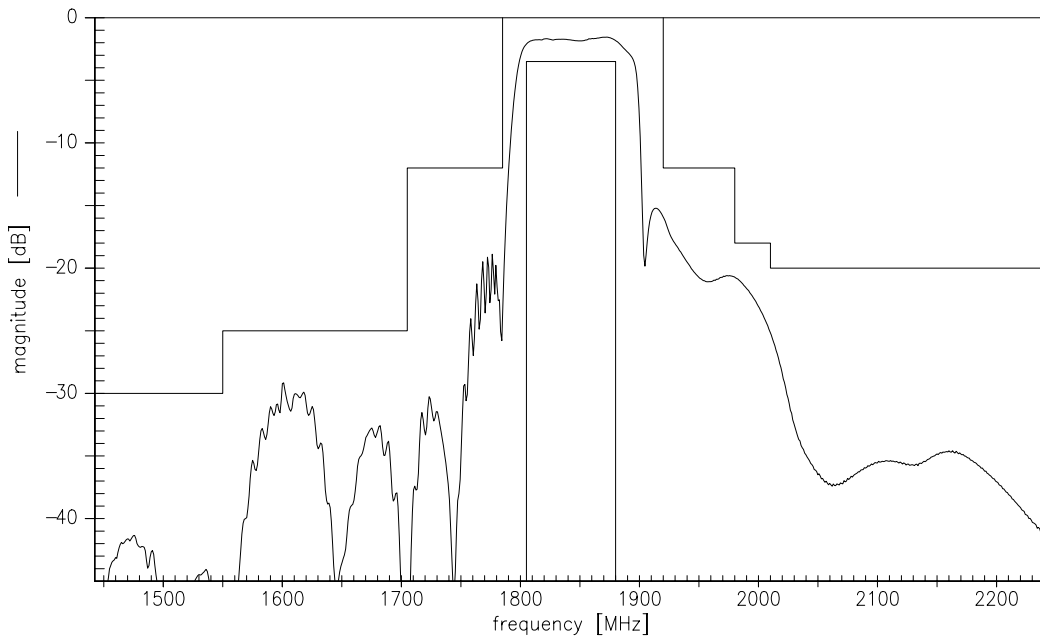| SAW Components	B4167
Low-Loss Filter for Mobile Communication	**1842,5 MHz**

Data Sheet   ᴿᴹᴰ

Characteristics

Operating Temperature Range: T = -10 to +80°C
Terminating source impedance: Z_S = 50Ω (unbalanced)
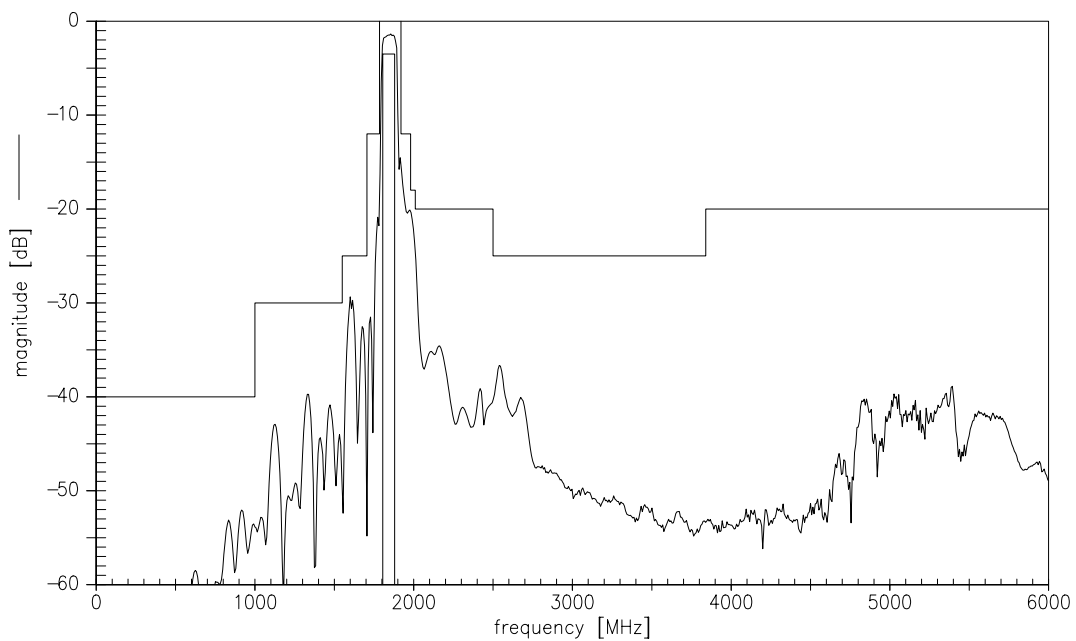Terminating load impedance: Z_L = 200Ω (balanced) || 22 nH

			min.	typ.	max.	
Center frequency		f_C	—	1842,5	—	MHz
Maximum insertion attenuation		α_{max}				
	1805,0 ... 1880,0	MHz	—	2,5	4,0	dB
Amplitude ripple (p-p)		$\Delta\alpha$				
	1805,0 ... 1880,0	MHz	—	1,4	2,5	dB
Input VSWR						
	1805,0 ...1880,0	MHz	—	1,8	2,4	
Output VSWR						
	1805,0 ...1880,0	MHz	—	1,8	2,4	
Output amplitude balance ($\|S_{31}/S_{21}\|$)						
	1805,0 ...1880,0	MHz	-1,5	-1,1 / +0,6	1,5	dB
Output phase balance ($\phi(S_{31})-\phi(S_{21})+180°$)						
	1805,0 ...1880,0	MHz	-15	+/- 6	15	°
Attenuation		α				
	0,0 ... 1000,0	MHz	40	50	—	dB
	1000,0 ... 1550,0	MHz	30	40	—	dB
	1550,0 ... 1705,0	MHz	25	28	—	dB
	1705,0 ... 1785,0	MHz	10	15	—	dB
	1920,0 ... 1980,0	MHz	10	17	—	dB
	1980,0 ... 2010,0	MHz	18	22	—	dB
	2010,0 ... 2500,0	MHz	20	26	—	dB
	2500,0 ... 3840,0	MHz	25	35	—	dB
	3840,0 ... 6000,0	MHz	20	32	—	dB

SAW Components	B4167
Low-Loss Filter for Mobile Communication	**1842,5 MHz**

Data Sheet SMD

Transfer function

Transfer function (wide band)

⚏TDK