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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: B4168

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39202B4168U410	B39202B4150U410	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.



SAW Components

B4168

Low-Loss Filter for Mobile Communication

1960,0 MHz

Data Sheet



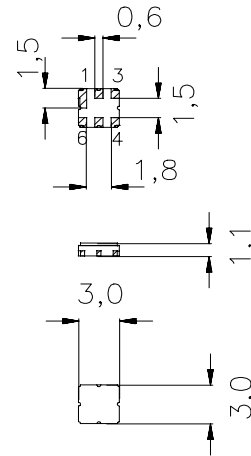
Ceramic package **DCC6C**

Features

- Low-loss RF filter for mobile telephone PCS systems, receive path
- Usable passband 60 MHz
- No matching network required for operation at 50 Ω
- Suitable for GPRS class 1 to 12
- Ceramic Package for **Surface Mounted Technology (SMT)**

Terminals

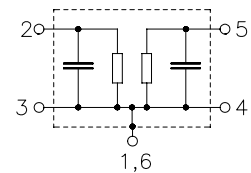
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

- | | |
|------|-----------------|
| 2 | Input |
| 1, 3 | Input - ground |
| 5 | Output |
| 4, 6 | Output - ground |



Type	Ordering code	Marking and Package according to	Packing according to
B4168	B39202-B4168-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 30/+ 75	°C	peak power of GSM signal, duty cycle 4:8
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	3	V	
Input power at GSM850, GSM900	P_{IN}	15	dBm	
GSM1800, GSM1900	P_{IN}	12	dBm	
Tx bands				



Data Sheet



Characteristics

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

			min.	typ.	max.	
Center frequency	f_c		—	1960,0	—	MHz
Maximum insertion attenuation	α_{\max}		—	2,7	3,5	dB
		1930,0 ... 1990,0 MHz				
Amplitude ripple (p-p)	$\Delta\alpha$		—	1,4	2,2	dB
		1930,0 ... 1990,0 MHz				
Input VSWR			—	1,9	2,1	
		1930,0 ... 1990,0 MHz				
Output VSWR			—	1,9	2,1	
		1930,0 ... 1990,0 MHz				
Attenuation	α					
		10,0 ... 1850,0 MHz	23,0	25,0	—	dB
		1850,0 ... 1910,0 MHz	10,5	14,0	—	dB
		2010,0 ... 2070,0 MHz	10,5	15,0	—	dB
		2070,0 ... 2410,0 MHz	25,0	29,0	—	dB
		2410,0 ... 2910,0 MHz	33,0	37,0	—	dB
		2910,0 ... 4500,0 MHz	25,0	29,0	—	dB
		4500,0 ... 5000,0 MHz	20,0	26,0	—	dB
		5000,0 ... 6000,0 MHz	8,0	10,0	—	dB



Data Sheet



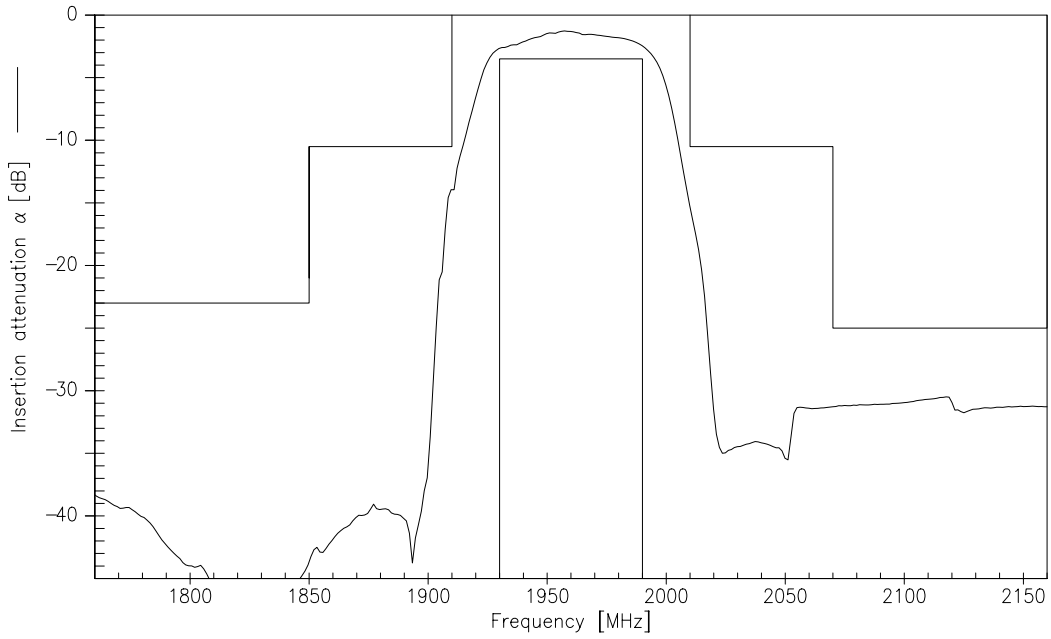
Characteristics

Operating temperature range: $T = -10$ to $+75^{\circ}\text{C}$
 Terminating source impedance: $Z_S = 50 \Omega$
 Terminating load impedance: $Z_L = 50 \Omega$

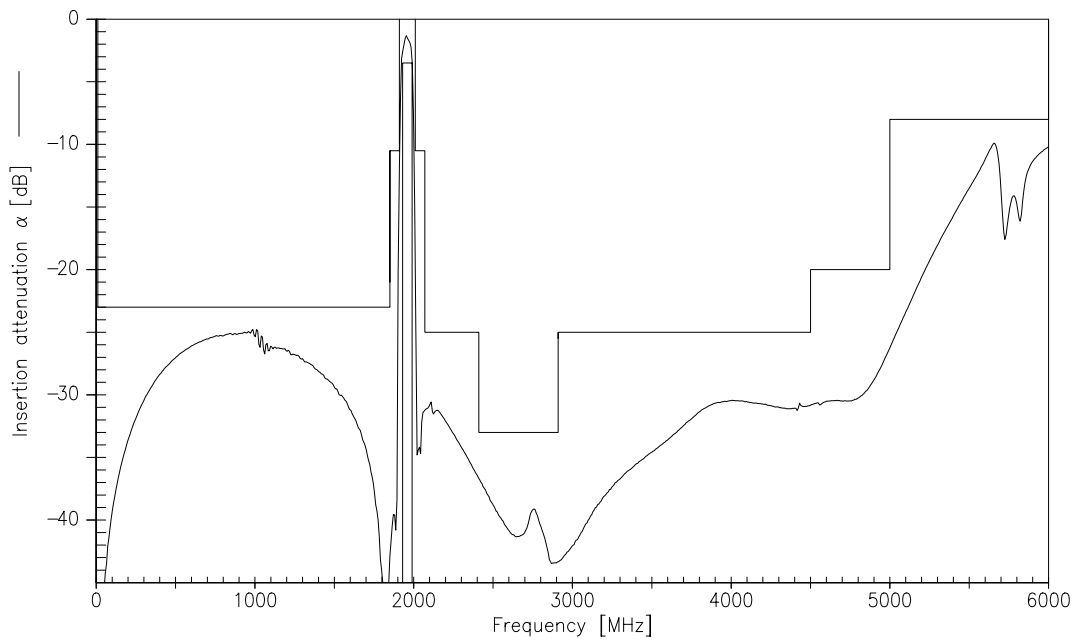
			min.	typ.	max.	
Center frequency	f_c		—	1960,0	—	MHz
Maximum insertion attenuation	α_{\max}		—	2,7	4,3	dB
		1930,0 ... 1990,0 MHz				
Amplitude ripple (p-p)	$\Delta\alpha$		—	1,4	3,0	dB
		1930,0 ... 1990,0 MHz				
Input VSWR			—	1,9	2,1	
		1930,0 ... 1990,0 MHz				
Output VSWR			—	1,9	2,1	
		1930,0 ... 1990,0 MHz				
Attenuation	α					
		10,0 ... 1850,0 MHz	23,0	25,0	—	dB
		1850,0 ... 1910,0 MHz	8,5	14,0	—	dB
		2010,0 ... 2070,0 MHz	8,5	15,0	—	dB
		2070,0 ... 2410,0 MHz	25,0	29,0	—	dB
		2410,0 ... 2910,0 MHz	33,0	37,0	—	dB
		2910,0 ... 4500,0 MHz	25,0	29,0	—	dB
		4500,0 ... 5000,0 MHz	20,0	26,0	—	dB
		5000,0 ... 6000,0 MHz	8,0	10,0	—	dB



Transfer function(Spec for 25°C):



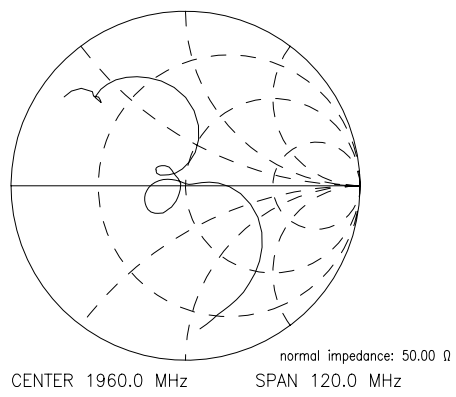
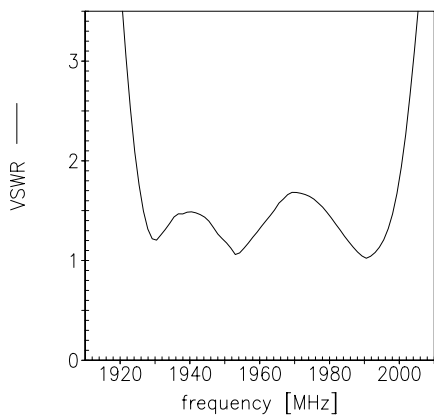
Transfer function(wideband):



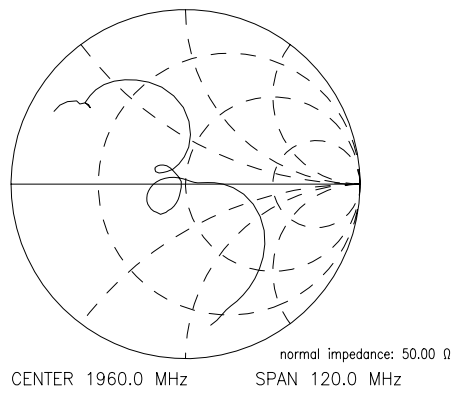
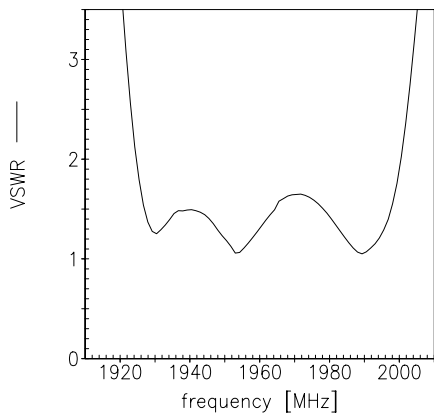


Reflection functions:

S_{11}



S_{22}





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1960,0 MHz

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