

Data Sheet B4168





B4168

Low-Loss Filter for Mobile Communication

1960,0 MHz

Data Sheet



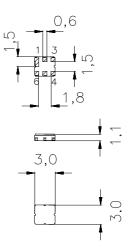
Ceramic package DCC6C

Features

- Low-loss RF filter for mobile telephone PCS systems, receive path
- Usable passband 60 MHz
- \bullet 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

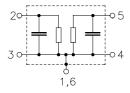
Pin configuration

2 Input

1, 3 Input - ground

5 Output

4, 6 Output - ground



Туре	Ordering code	Marking and Package	Packing
		according to	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	
Storage temperature range	$T_{ m stg}$	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	3	V	
Input power at				
GSM850, GSM900	P_{IN}	15	dBm	peak power of GSM signal,
GSM1800, GSM1900	P_{IN}	12	dBm	duty cycle 4:8
Tx bands				



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Characteristics

 $T = +25 + 2^{\circ} \text{C}$ $Z_{\text{S}} = 50 \Omega$ $Z_{\text{L}} = 50 \Omega$ Operating temperature range: Terminating source impedance: Terminating load impedance:

		min.	typ.	max.	
Center frequency	$f_{\rm C}$	_	1960,0	_	MHz
Maximum insertion attenuation 1930,01990,0 MHz	α_{max}	_	2,7	3,5	dB
Amplitude ripple (p-p) 1930,01990,0 MHz	Δα	_	1,4	2,2	dB
Input VSWR 1930,01990,0 MHz		_	1,9	2,1	
Output VSWR 1930,01990,0 MHz		_	1,9	2,1	
Attenuation 10,01850,0 MHz 1850,01910,0 MHz 2010,02070,0 MHz 2070,02410,0 MHz	α	23,0 10,5 10,5 25,0	25,0 14,0 15,0 29,0	_ _ _ _	dB dB dB
2410,02910,0 MHz 2910,04500,0 MHz 4500,05000,0 MHz 5000,06000,0 MHz		33,0 25,0 20,0 8,0	37,0 29,0 26,0 10,0	_ _ _ _	dB dB dB dB



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Characteristics

Operating temperature range:

 $T = -10 \text{ to } +75^{\circ}\text{C}$ $Z_{\text{S}} = 50 \Omega$ $Z_{\text{L}} = 50 \Omega$ Terminating source impedance: Terminating load impedance:

				min.	typ.	max.	
Center frequency			f _C	_	1960,0	_	MHz
Maximum insertion attenuation			α_{max}				
1930,0	1990,0	MHz		_	2,7	4,3	dB
Amplitude ripple (p-p)			Δα				
1930,0	1990,0	MHz		_	1,4	3,0	dB
Input VSWR							
1930,0	1990,0	MHz		_	1,9	2,1	
Output VSWR							
1930,0	1990,0	MHz		_	1,9	2,1	
Attenuation			α				
	1850,0	MHz		23,0	25,0	_	dB
	1910,0	MHz		8,5	14,0	_	dB
· ·	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



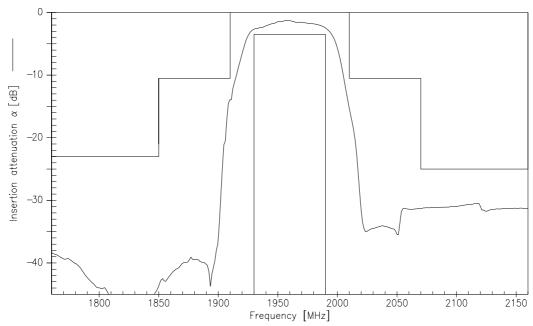
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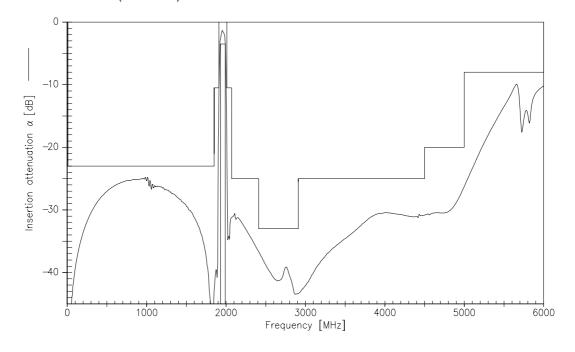
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Transfer function(Spec for 25°C):



Transfer function(wideband):





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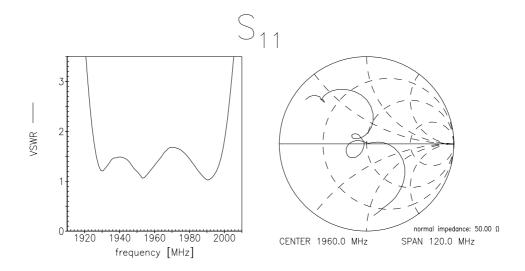
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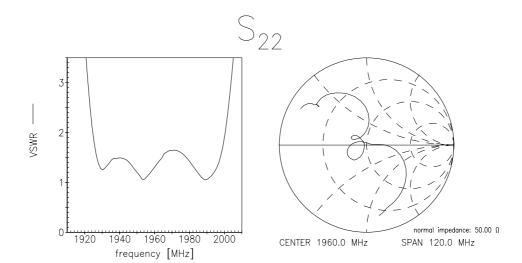
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Reflection functions:







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