

Data Sheet B4148

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B4148

**Low-Loss Filter for Mobile Communication** 

1960,00 MHz

**Data Sheet** 



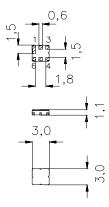
Ceramic package DCC6C

### **Features**

- Low-loss RF filter for mobile telephone PCS systems, receive path
- Usable passband 60 MHz
- No matching network required for operation at 50  $\Omega$
- Ceramic Package for Surface Mounted Technology (SMT)

### **Terminals**

Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

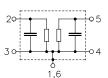
# Pin configuration

2 Input

1, 3 Input - ground

5 Output

Output - ground 4, 6



Туре	Ordering code	Marking and Package	Packing
		according to	according to
B4148	B39202-B4148-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)

# **Maximum ratings**

Operable temperature range	Τ	- 20/+ 75	°C	
Storage temperature range	$T_{stq}$	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Input power max.				source and load impedance 50 $\Omega$
	$P_{IN}$	15	dBm	peak power of GSM signal,
				duty cycle 1:8
		10	dBm	CDMA signal



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Characteristics

Operating temperature range:  $T = +25 + -5^{\circ} \text{C}$ Terminating source impedance:  $Z_{\text{S}} = 50 \ \Omega$ Terminating load impedance:  $Z_{\text{L}} = 50 \ \Omega$ 

MHz
dB
dB
dB



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Characteristics

 $T = -20 \text{ to } +75^{\circ}\text{C}$ Operating temperature range:

 $Z_{\rm S} = 50 \,\Omega$  $Z_{\rm L} = 50 \,\Omega$ Terminating source impedance: Terminating load impedance:

				min.	typ.	max.	
Center frequency			f <sub>c</sub>		1960,0		MHz
Maximum insertion attenuation		$\alpha_{\text{max}}$					
1930,0	1990,0	MHz		_	3,1	4,3	dB
Amplitude ripple (p-p)			Δα				
1930,0	1990,0	MHz		_	1,6	2,8	dB
Input VSWR							
1930,0	1990,0	MHz		_	1,8	2,1	
Output VSWR							
1930,0	1990,0	MHz		_	1,8	2,1	
Attenuation			α				
10,0	600,0	MHz		20,0	22,0	_	dB
600,0	1500,0	MHz		18,0	19,5	_	dB
1500,0	1850,0	MHz		20,0	22,0	_	dB
1850,0	1910,0	MHz		8,5	16,5	_	dB
2010,0	2070,0	MHz		7,0	13,0	_	dB
2070,0	5000,0	MHz		20,0	23,0	_	dB
5000,0	6000,0	MHz		10,0	18,0	_	dB



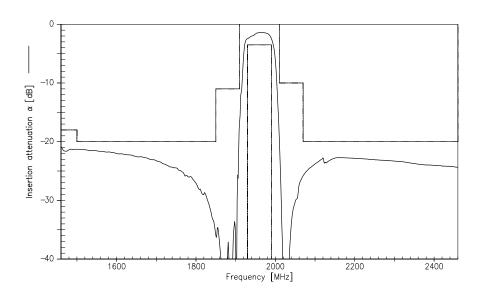
SAW Components B4148

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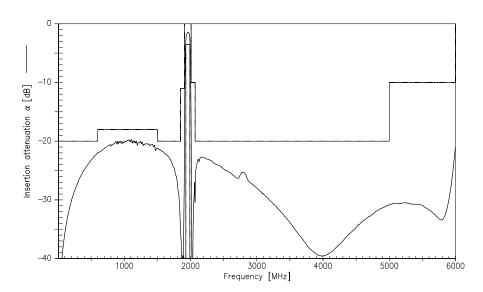
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Transfer Function(25°C spec)



# Transfer function (wideband)





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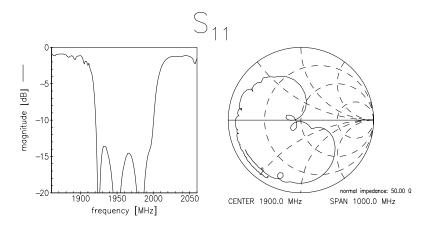
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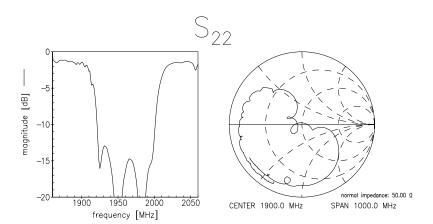
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### **Reflection functions**







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