

Data Sheet B4148

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B4148

Low-Loss Filter for Mobile Communication

1960,00 MHz

Data Sheet



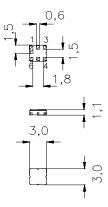
Ceramic package DCC6C

Features

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

Terminals

Ni, gold-plated



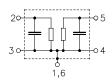
Dimensions in mm, approx. weight 0,037 g

Pin configuration

2 Input1, 3 Input - ground5 Output

4, 6

Output - ground



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	$T_{ m stg}$	- 40/ + 85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Input power max.				source and load impedance 50 Ω
	P_{IN}	15	dBm	peak power of GSM signal,
				duty cycle 1:8
		10	dBm	CDMA signal



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Characteristics

 $T = +25 + -5^{\circ}C$ Operating temperature range: $\begin{array}{ll} Z_{\rm S} &= 50~\Omega \\ Z_{\rm L} &= 50~\Omega \end{array}$ 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		_	2,8	3,3	dB
Amplitude ripple (p-p)			Δα				
1930,0	1990,0	MHz		_	1,3	2,0	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		11,0	21,0	_	dB
2010,0	2070,0	MHz		10,0	17,0	_	dB
2070,0	5000,0	MHz		20,0	23,0	_	dB
5000,0	6000,0	MHz		10,0	18,0	_	dB



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Characteristics

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

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

			min.	typ.	max.	
Center frequency		$f_{\rm C}$	_	1960,0	_	MHz
Maximum insertion attenuation		α_{max}				
1930,01990,0	MHz		_	3,1	4,3	dB
Amplitude ripple (p-p)		Δα				
1930,01990,0	MHz		_	1,6	2,8	dB
Input VSWR						
1930,01990,0	MHz		_	1,8	2,1	
Output VSWR						
1930,01990,0	MHz		_	1,8	2,1	
Attenuation		α				
10,0 600,0	MHz		20,0	22,0	_	dB
600,01500,0	MHz		18,0	19,5	_	dB
1500,01850,0	MHz		20,0	22,0	_	dB
1850,01910,0	MHz		8,5	16,5	_	dB
2010,02070,0	MHz		7,0	13,0	_	dB
2070,05000,0	MHz		20,0	23,0	_	dB
5000,06000,0	MHz		10,0	18,0	_	dB

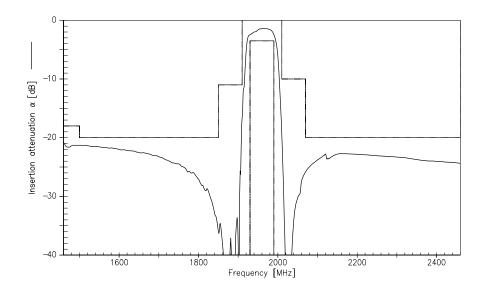


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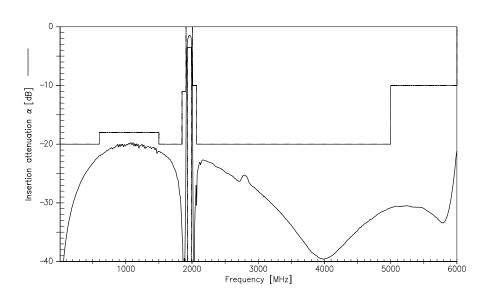
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Transfer Function(25°C spec)



Transfer function (wideband)





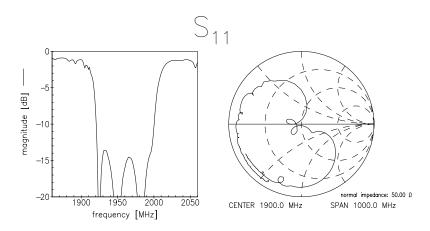
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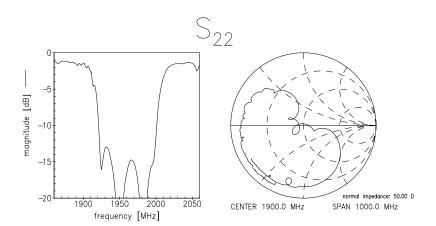
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Reflection functions







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