

Data Sheet B4169





B4169

Low-Loss Filter for Mobile Communication

1842,5 MHz

Data Sheet



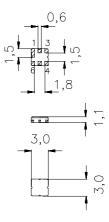
Ceramic package DCC6D

Features

- Low-loss RF filter for mobile telephone PCN systems, receive path
- Low amplitude ripple
- Usable passband 75 MHz
- Unbalanced to balanced operation
- Package for Surface Mounted Technology (SMT)
- Ceramic SMD package

Terminals

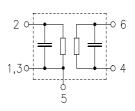
Ni, gold-plated



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



Туре	Ordering code	Marking and Package according to	Packing according to
B4169	B39182-B4169-U510	C61157-A7-A68	F61074-V8089-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range Storage temperature range DC voltage	T $T_{ m stg}$ $V_{ m DC}$	- 10 / + 75 - 40 / + 85 3	°C °C V	
Input power max.	P_{IN}			source/load impedance $50\Omega/50\Omega$
1710,0 1785,0 MHz		15	dBm	peak power of GSM signal, duty cycle 1:8 (2000 h, 75 °C max.)



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Characteristics

Operating Temperature Range: $T = +25 + -2^{\circ}C$

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

		min.	typ.	max.	
Center frequency		_	1842,5	_	MHz
Maximum insertion attenuation 1805,0 1880,0 MHz	α_{max}	_	3,0	3,5	dB
Amplitude ripple (p-p) 1805,0 1880,0 MHz	Δα	_	1,2	1,7	dB
Attenuation					
0 1705,0 MHz		23	35	_	dB
1705,0 1785,0 MHz		10	15	_	dB
1920,0 1980,0 MHz		10	13	_	dB
1980,0 6000,0 MHz		23	27	_	dB



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Characteristics

Operating Temperature Range: $T = -10 \text{ to } +75^{\circ}\text{C}$ $Z_{\rm S} = 50 \,\Omega$ (unbalanced) $Z_{\rm L} = 50 \,\Omega$ (balanced) Terminating source impedance: Terminating load impedance:

			min.	typ.	max.	
Center frequency		$f_{\mathbb{C}}$	_	1842,5	_	MHz
Maximum insertion attenuation 1805,0 1880,0	MHz	α_{max}	_	3,2	4,0	dB
Amplitude ripple (p-p) 1805,0 1880,0 MHz		Δα	_	1,4	2,2	dB
Attenuation		α				
0 1705,0	MHz		23	35	_	dB
1705,0 1785,0	MHz		9	14	_	dB
1920,0 1980,0	MHz		9	13	_	dB
1980,0 6000,0	MHz		23	27	_	dB



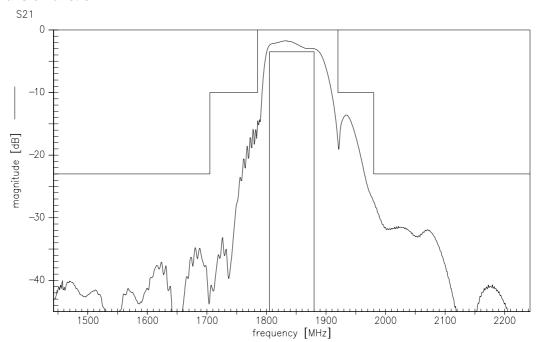
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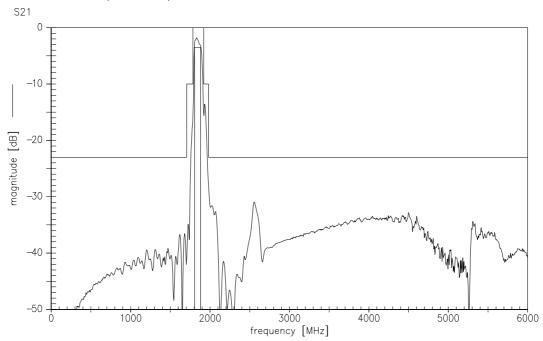
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Transfer function



Transfer function (wide band)





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