

Data Sheet B4161





B4161

Low-Loss Filter for Mobile Communication

860,50 MHz

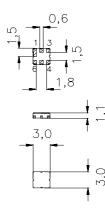
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Features

Ceramic package DCC6C

- Low-loss RF filter for iDEN mobile telephone, receive path
- Low insertion attenuation
- Low amplitude ripple
- \blacksquare No matching network required for operation at 50 Ω
- Ceramic Package for Surface Mounted Technology (SMT)
- RoHS compliant



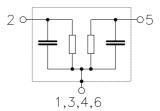
Terminals

■ Ni, gold-plated

Dimensions in mm, approx. weight 0,037g

Pin configuration

2 Input 5 Output 1, 3, 4, 6 Case ground



Туре	Ordering code	Marking and Package	Packing
		according to	according to
B4161	B39861-B4161-U410	C61157-A7-A67	F61074-V8168-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40 / + 85	°C	
Storage temperature range	$T_{\rm stg}$	- 40 / + 85	°C	
DC voltage	$V_{\rm DC}$	5	V	
ESD voltage	V^*_{ESD}	100*	V	Machine Model, 10 pulses
Input power max.	P_{IN}	0	dBm	source impedance 50 Ω
				continuous wave

^{*-}acc. to JESD22-A115A(Machine Model), 10 negative & 10 positive pulses



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Characteristics

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

		min.	typ.	max.	
Center frequency	$f_{\rm c}$	_	860,50	_	MHz
Maximum insertion attenuation	α_{max}				
851,000 870,000 MHz		_	2,3	2,7	dB
Amplitude ripple (p-p)					
851,000 870,000 MHz		_	0,7	1,0	dB
Group delay ripple (p-p)	Δτ				
851,000 870,000 MHz		_	37	50	ns
Attenuation	α_{min}				
0,000 795,000 MHz		45	61	_	dB
795,000 806,000 MHz		40	49	_	dB
806,000 825,000 MHz		37	56	_	dB
896,000 902,000 MHz		28	35	_	dB
905,825 924,825 MHz		27	39	_	dB
960,650 979,650 MHz		37	53	_	dB
1070,3001089,300 MHz		47	51	_	dB
1089,3003000,000 MHz		27	36	_	dB
Input and output return loss					
851,000 870,000 MHz		11	12	_	dB



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Characteristics

Operating temperature range:

 $T = -30 \text{ to } +85^{\circ}\text{C}$ $Z_{\text{S}} = 50 \Omega$ $Z_{\text{L}} = 50 \Omega$ Terminating source impedance: Terminating load impedance:

		min.	typ.	max.	
Center frequency	$f_{\rm C}$	_	860,50	_	MHz
Maximum insertion attenuation	α_{max}				
851,000 870,000 MHz		_	2,4	3,0	dB
Amplitude ripple (p-p)					
851,000 870,000 MHz		_	0,8	1,0	dB
Group delay ripple (p-p)	Δτ				
851,000 870,000 MHz		_	39	60	ns
Attenuation	α_{min}				
0,000 795,000 MHz		45	59	_	dB
795,000 806,000 MHz		40	49	_	dB
806,000 825,000 MHz		37	50	_	dB
896,000 902,000 MHz		28	34	_	dB
905,825 924,825 MHz		27	39	_	dB
960,650 979,650 MHz		37	53	_	dB
1070,3001089,300 MHz		47	51	_	dB
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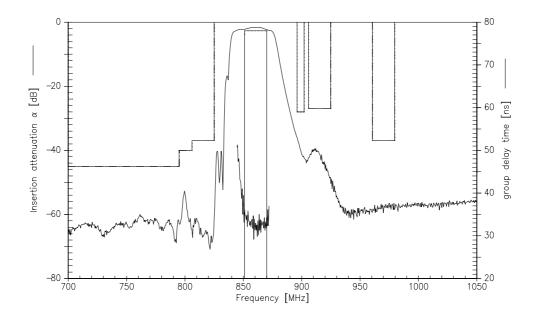
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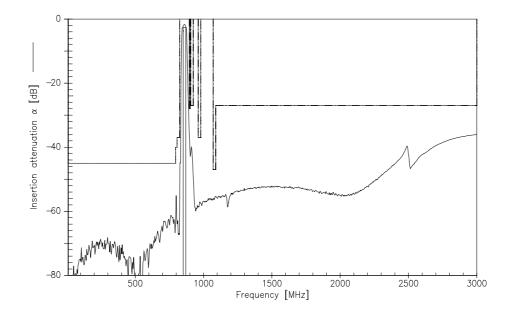
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Transfer function ($25\pm2\,^{\circ}\text{C})$



Transfer function (wideband)





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