



SAW Components

Data Sheet B4161



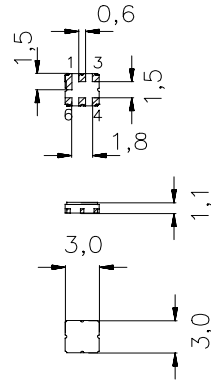


SAW Components	B4161
Low-Loss Filter for Mobile Communication	860,50 MHz
Data Sheet	

Features

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

Ceramic package **DCC6C**



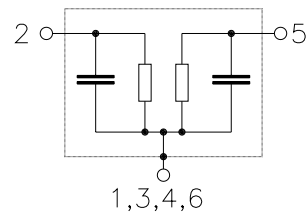
Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,037g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing 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	Machine Model, 10 pulses source impedance 50 Ω continuous wave
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	V_{DC}	5	V	
ESD voltage	V^*_{ESD}	100*	V	
Input power max.	P_{IN}	0	dBm	

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



Characteristics

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

		min.	typ.	max.	
Center frequency	f_c	—	860,50	—	MHz
Maximum insertion attenuation	α_{\max}				
	851,000 ... 870,000 MHz	—	2,3	2,7	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
	851,000 ... 870,000 MHz	—	0,7	1,0	dB
Group delay ripple (p-p)	$\Delta\tau$				
	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
	1070,300 ... 1089,300 MHz	47	51	—	dB
	1089,300 ... 3000,000 MHz	27	36	—	dB
Input and output return loss					
	851,000 ... 870,000 MHz	11	12	—	dB



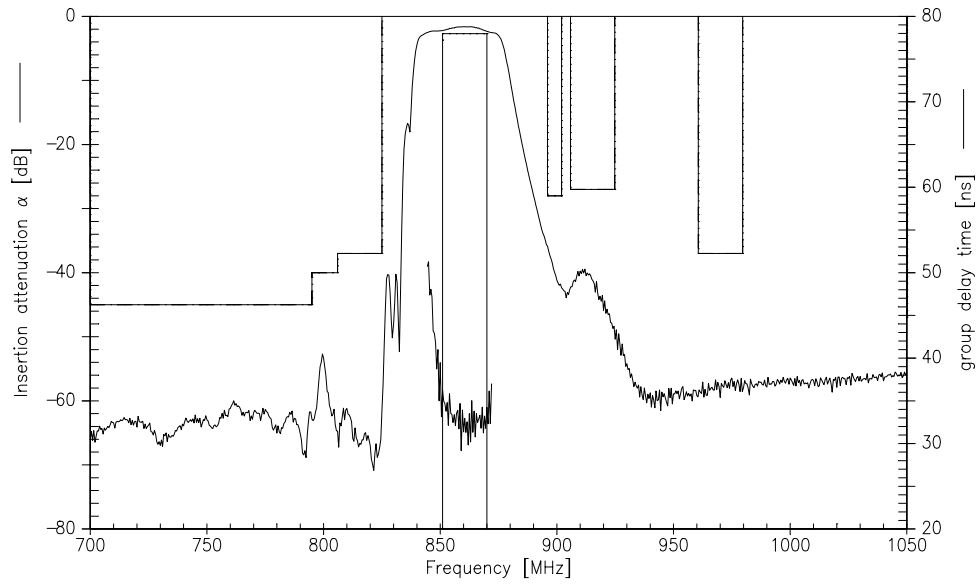
Characteristics

Operating temperature range: $T = -30$ to $+85^{\circ}\text{C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

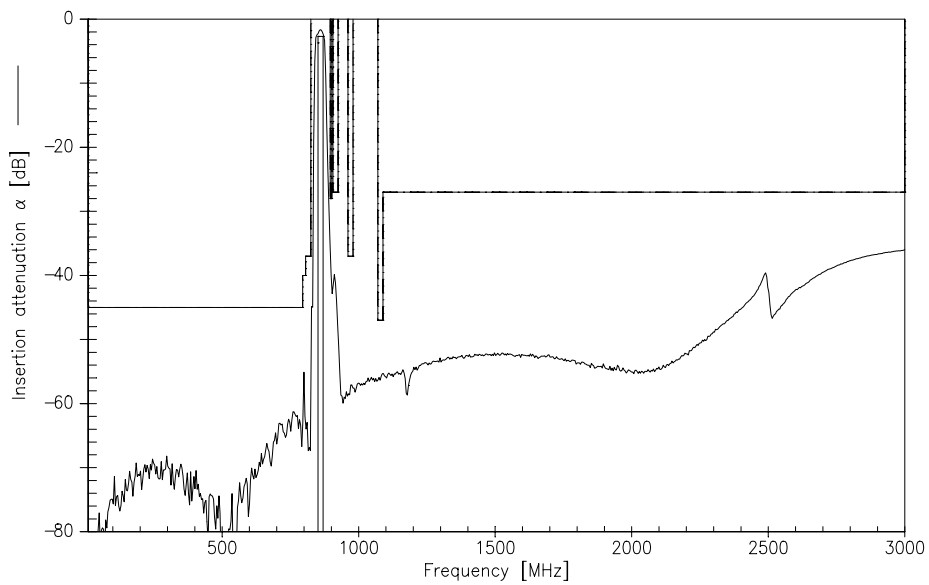
		min.	typ.	max.	
Center frequency	f_c	—	860,50	—	MHz
Maximum insertion attenuation	α_{\max}				
	851,000 ... 870,000 MHz	—	2,4	3,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
	851,000 ... 870,000 MHz	—	0,8	1,0	dB
Group delay ripple (p-p)	$\Delta\tau$				
	851,000 ... 870,000 MHz	—	39	60	ns
Attenuation	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
	1070,300 ... 1089,300 MHz	47	51	—	dB
	1089,300 ... 3000,000 MHz	27	36	—	dB
Input and output return loss					
	851,000 ... 870,000 MHz	11	12	—	dB



Transfer function (25±2 °C)



Transfer function (wideband)





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860,50 MHz

Data Sheet



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