EPCOS

SAW Components

Data Sheet B4182

Data Sheet SMD

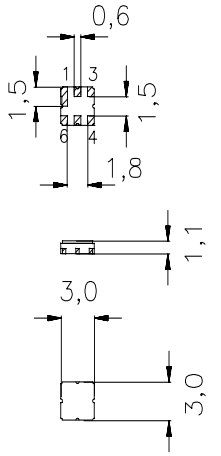
Ceramic package **DCC6C**

Features

- Low-loss RF filter for Multicarrier Basestation (CDMA) , receive path
- Usable passband: 65 MHz
- No matching network required for operation at 50Ω
- Ceramic package for **S**urface **M**ounted **T**echnology (**SMT**)
- Hermetically sealed ceramic package
- RoHS compliant

Terminals

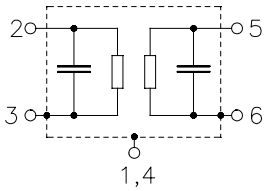
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

2	Input
5	Output
1, 3, 4, 6	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B4182	B39182-B4182-U410	C61157-A7-A67	F61074-V8168-Z000

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T	– 40 / + 85	˚C	
Storage temperature range	T_{stg}	– 40 / + 85	˚C	
ESD voltage	V^*_{ESD}	50*	V	Machine Model, 10 pulses
Input power max.				source and load impedance 50 Ω
1930,0 ... 1990,0 MHz	P_{IN}	12	dBm	continuous wave, 85 ˚C
	P_{IN}	15	dBm	continuous wave, 55 ˚C

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

Characteristics

Operating temperature range: T = +25 ± 2 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

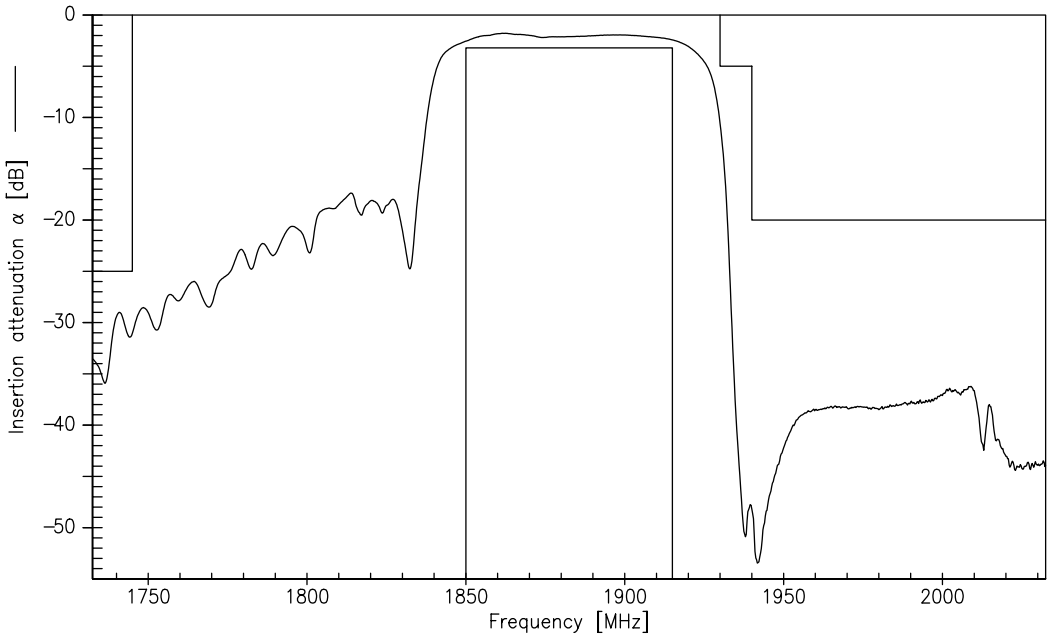
			min.	typ.	max.	
Center frequency	f_c		1882,5		MHz
Maximum insertion attenuation	α_{max}				
1850,0 ...1915,0 MHz		—	2,5	3,2	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1850,0 ...1915,0 MHz		—	0,8	1,4	dB
Return loss					
1850,0 ...1915,0 MHz		9,0	10,0	—	dB
Attenuation	α_{abs}				
800,0 ...1400,0 MHz		24,0	28,0	—	dB
1400,0 ...1745,0 MHz		25,0	28,0	—	dB
1930,0 ...1940,0 MHz		5,0	10,0	—	dB
1940,0 ...3000,0 MHz		20,0	23,0	—	dB

Characteristics

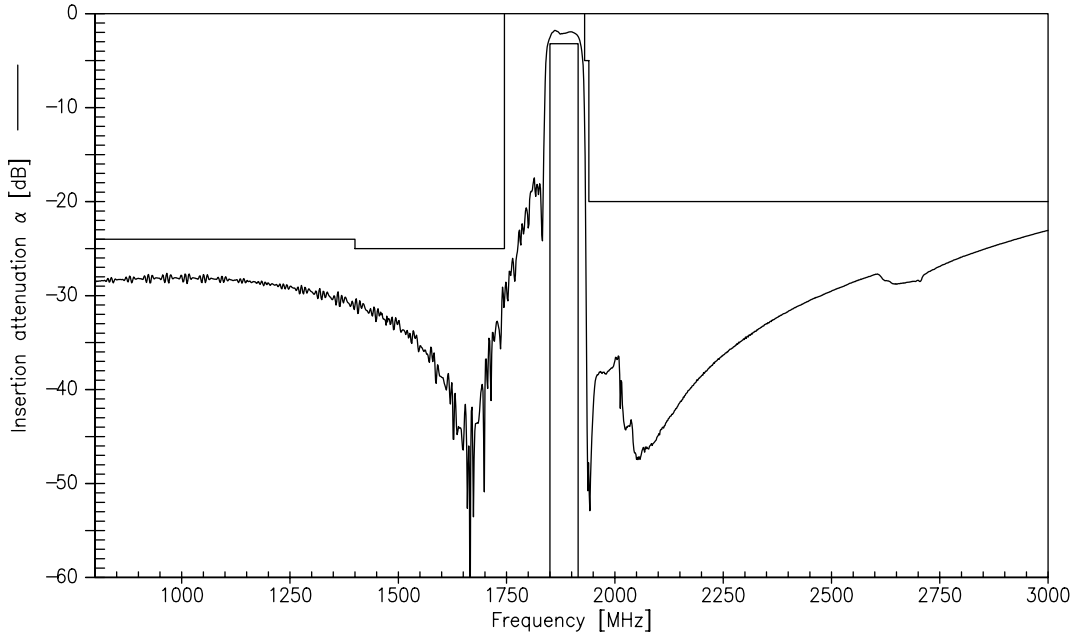
Operating temperature range: T = 0 to +85˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

			min.	typ.	max.	
Center frequency	f_c		1882,5		MHz
Maximum insertion attenuation	α_{max}				
1850,0 ...1915,0 MHz		—	2,9	3,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1850,0 ...1915,0 MHz		—	1,1	1,7	dB
Return loss					
1850,0 ...1915,0 MHz		9,0	10,0	—	dB
Attenuation	α_{abs}				
800,0 ...1400,0 MHz		24,0	28,0	—	
1400,0 ...1746,0 MHz		25,0	28,0	—	dB
1930,0 ...1940,0 MHz		5,0	7,0	—	dB
1940,0 ...3000,0 MHz		20,0	23,0	—	dB

Transfer function (Narrowband measurement)



Transfer function (Wideband measurement)



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