EPCOS

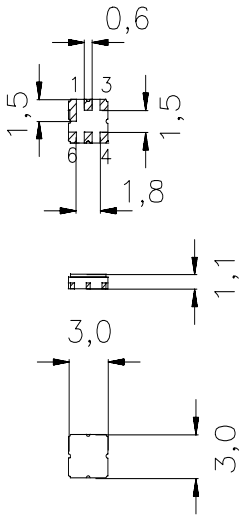
SAW Components

Data Sheet B4183

Features

- Low-loss RF filter for W-CDMA mobile telephone system, transmit path
- Unbalanced to balanced operation
- Usable passband 125MHz
- Ceramic Package for **S**urface **M**ounted **T**echnology (**SMT**)

Ceramic package **DCC6D**



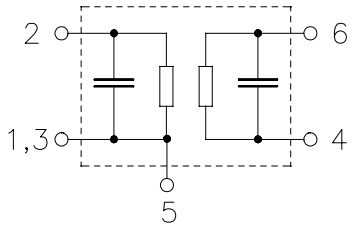
Dimensions in mm, approx. weight 0,037 g

Terminals

- Ni, gold-plated

Pin configuration

2	Input, unbalanced
1, 3	Input ground
4, 6	Output, balanced
5	To be grounded
1, 3, 5	Case ground



Type	Ordering code	Marking and Package according to	Packing according to
B4183	B39202-B4183-U510	C61157-A7-A68	V61074-V8089-Z000

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

Maximum ratings

Operable temperature range	T	– 30 / + 80	˚C	
Storage temperature range	T_{stg}	– 40 / + 85	˚C	
DC voltage	V_{DC}	3	V	
ESD voltage	V^*_{ESD}	50*	V	Machine Model, 10 pulses
Source power	P_{IN}	5	dBm	

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

Characteristics

Operating temperature range: T = 25°C
Terminating source impedance: Z_S = 50 Ω || 3.9 nH
Terminating load impedance: Z_L = 200 Ω || 18.0 nH

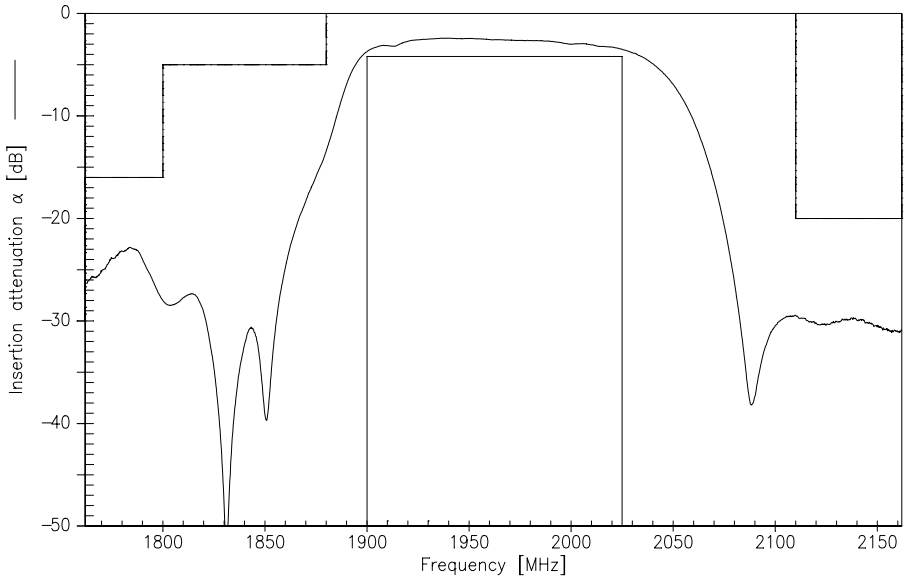
		min.	typ.	max.	
Center frequency	f_c	—	1962,5	—	MHz
Maximum insertion attenuation	α_{max}				
1900,0 ... 2025,0 MHz		—	3,8	4,2	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1900,0 ... 2025,0 MHz		—	1,4	1,8	dB
Absolute attenuation	α_{abs}				
0,0 ... 1600,0 MHz		30	35	—	dB
1600,0 ... 1800,0 MHz		16	20	—	dB
1800,0 ... 1880,0 MHz		5	10	—	dB
2110,0 ... 6000,0 MHz		20	25	—	dB

Characteristics

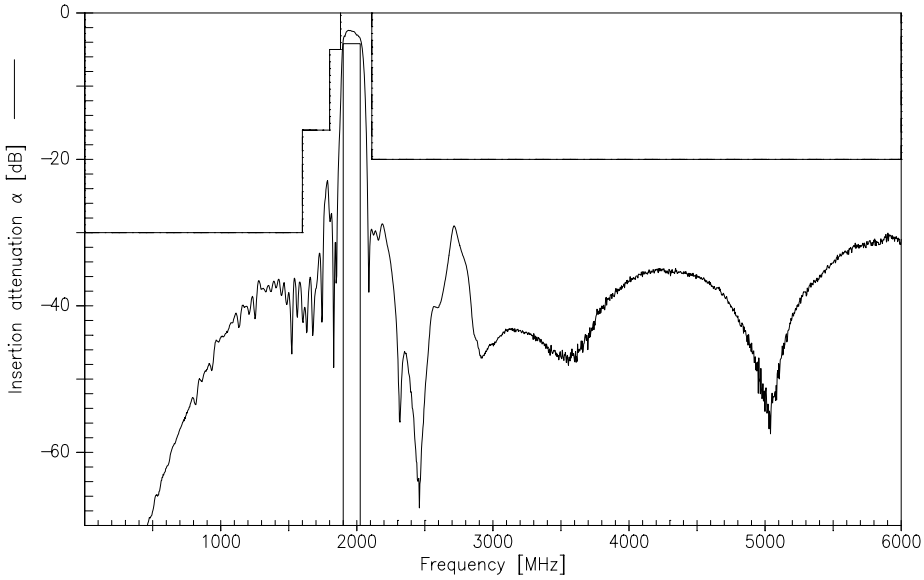
Operating temperature range: T = -30 .. +80˚C
Terminating source impedance: Z_S = 50 Ω || 3.9 nH
Terminating load impedance: Z_L = 200 Ω || 18.0 nH

		min.	typ.	max.	
Center frequency	f_c	—	1962,5	—	MHz
Maximum insertion attenuation	α_{max}				
1900,0 ... 2025,0 MHz		—	4,2	4,8	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1900,0 ... 2025,0 MHz		—	1,8	2,4	dB
Absolute attenuation	α_{abs}				
0,0 ... 1600,0 MHz		30	35	—	dB
1600,0 ... 1800,0 MHz		16	20	—	dB
1800,0 ... 1880,0 MHz		5	10	—	dB
2110,0 ... 6000,0 MHz		20	25	—	dB

Transfer function (narrowband) **:**



Transfer function (wideband) **:**



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