



Siemens Matsushita Components

SAW Components Low Loss Filter for Mobile Communication

B4137
1842,50 MHz

Data Sheet

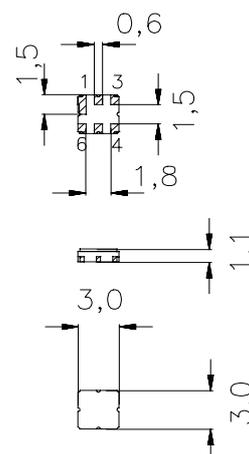
Ceramic package **DCC6C**

Features

- Low-loss RF filter for mobile telephone PCN system, receive path
- High selectivity
- Usable passband: 75 MHz
- No matching network required for operation at 50 Ω
- Ceramic Package for **Surface Mounted Technology (SMT)**

Terminals

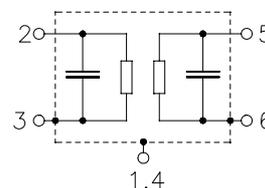
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B4137	B39182-B4137-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 20 / + 75	$^{\circ}\text{C}$	source and load impedance 50 Ω peak power of GSM signal, duty cycle 1 : 8 continuous wave
Storage temperature range	T_{stg}	- 40 / + 85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Input power max. 1710 ... 1785 MHz	P_{IN}	5	dBm	
elsewhere		0	dBm	



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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		—	1842,5	—	MHz
Maximum insertion attenuation	α_{max}		—	3,5	4,0	dB
		1805,0 ... 1880,0 MHz				
Amplitude ripple (p-p)	$\Delta\alpha$		—	1,9	2,4	dB
		1805,0 ... 1880,0 MHz				
Input VSWR			—	2,3	2,5	
		1805,0 ... 1880,0 MHz				
Output VSWR			—	2,3	2,5	
		1805,0 ... 1880,0 MHz				
Attenuation	α					
		10,0 ... 800,0 MHz	20,0	21,0	—	dB
		800,0 ... 1500,0 MHz	19,0	20,0	—	dB
		1500,0 ... 1664,0 MHz	20,0	21,0	—	dB
		1664,0 ... 1739,0 MHz	22,0	24,0	—	dB
		1739,0 ... 1760,0 MHz	22,0	28,0	—	dB
		1760,0 ... 1785,0 MHz	15,0	25,0	—	dB
		1920,0 ... 1980,0 MHz	20,0	28,0	—	dB
		1980,0 ... 3328,0 MHz	20,0	23,0	—	dB
		3328,0 ... 4512,0 MHz	25,0	31,0	—	dB
		4512,0 ... 5000,0 MHz	20,0	28,0	—	dB
		5000,0 ... 6000,0 MHz	10,0	20,0	—	dB



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Characteristics

Operating temperature range: $T = -20$ to $+75^{\circ}\text{C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

			min.	typ.	max.	
Center frequency	f_c		—	1842,5	—	MHz
Maximum insertion attenuation	α_{max}	1805,0 ... 1880,0 MHz	—	4,0	4,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$	1805,0 ... 1880,0 MHz	—	2,4	2,9	dB
Input VSWR		1805,0 ... 1880,0 MHz	—	2,3	2,5	
Output VSWR		1805,0 ... 1880,0 MHz	—	2,3	2,5	
Attenuation	α					
		10,0 ... 800,0 MHz	20,0	21,0	—	dB
		800,0 ... 1500,0 MHz	19,0	20,0	—	dB
		1500,0 ... 1664,0 MHz	20,0	21,0	—	dB
		1664,0 ... 1739,0 MHz	22,0	24,0	—	dB
		1739,0 ... 1760,0 MHz	22,0	28,0	—	dB
		1760,0 ... 1785,0 MHz	11,0	20,0	—	dB
		1920,0 ... 1980,0 MHz	20,0	25,0	—	dB
		1980,0 ... 3328,0 MHz	20,0	23,0	—	dB
		3328,0 ... 4512,0 MHz	25,0	31,0	—	dB
		4512,0 ... 5000,0 MHz	20,0	28,0	—	dB
		5000,0 ... 6000,0 MHz	10,0	20,0	—	dB



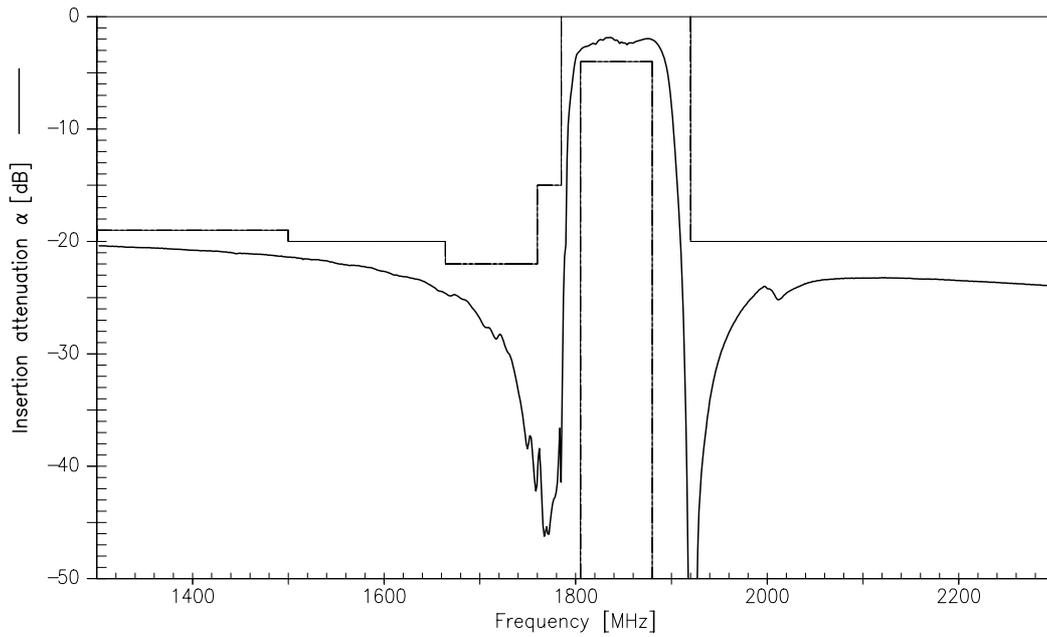
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Transfer function (spec for 25°C)



Transfer function (wideband)

