EPCOS

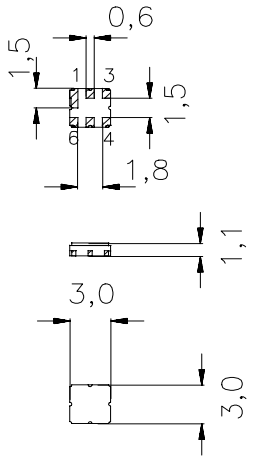
SAW Components

Data Sheet B4130

Ceramic package **DCC6C**

Features

- Low-loss RF filter for mobile telephone EGSM system, transmit path
- Low amplitude ripple
- Usable passband 35 MHz
- No matching network required for operation at 50 Ω
- Ceramic Package for Surface Mounted Technology (SMT)



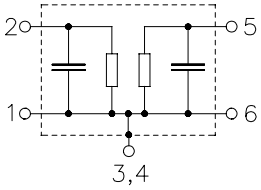
Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,037 g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B4130	B39901-B4130-U410	C61157-A7-A67	F61074-V8088-Z000

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

Maximum ratings

Operable temperature range	T	– 10 / +80	˚C	
Storage temperature range	T_{stg}	– 40 / +85	˚C	
DC voltage	V_{DC}	3	V	
ESD voltage	V_{ESD}	50	V	
Input power max.				source and load impedance 50 Ω
880...915 MHz	P_{IN}	15	dBm	peak power of GSM signal, duty cycle 1 : 8
elsewhere		5	dBm	continuous wave

Characteristics

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

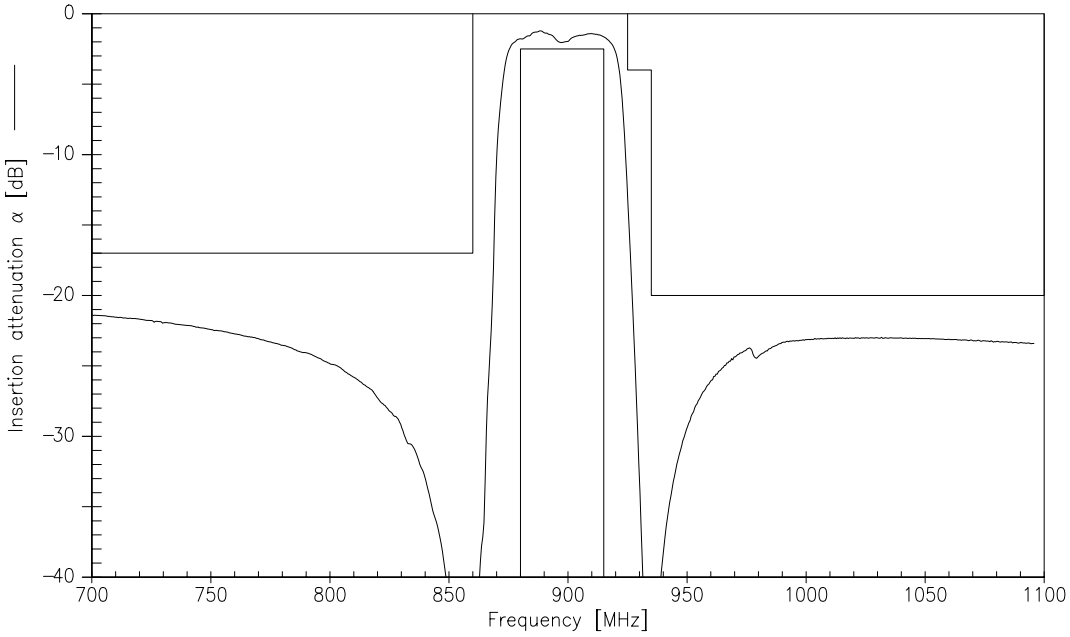
		min.	typ.	max.	
Center frequency	f_c	—	897,50	—	MHz
Maximum insertion attenuation	α_{max}				
880,0 ... 915,0 MHz		—	2,0	2,3	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
880,0 ... 915,0 MHz		—	0,8	1,1	dB
Input VSWR					
880,0 ... 915,0 MHz		—	1,7	2,0	
Output VSWR					
880,0 ... 915,0 MHz		—	1,7	2,0	
Attenuation	α				
0,0 ... 860,0 MHz		17	20		dB
925,0 ... 935,0 MHz		5,5	13		dB
935,0 ... 960,0 MHz		20	26		dB
960,0 ...3660,0 MHz		20	26		dB

Characteristics

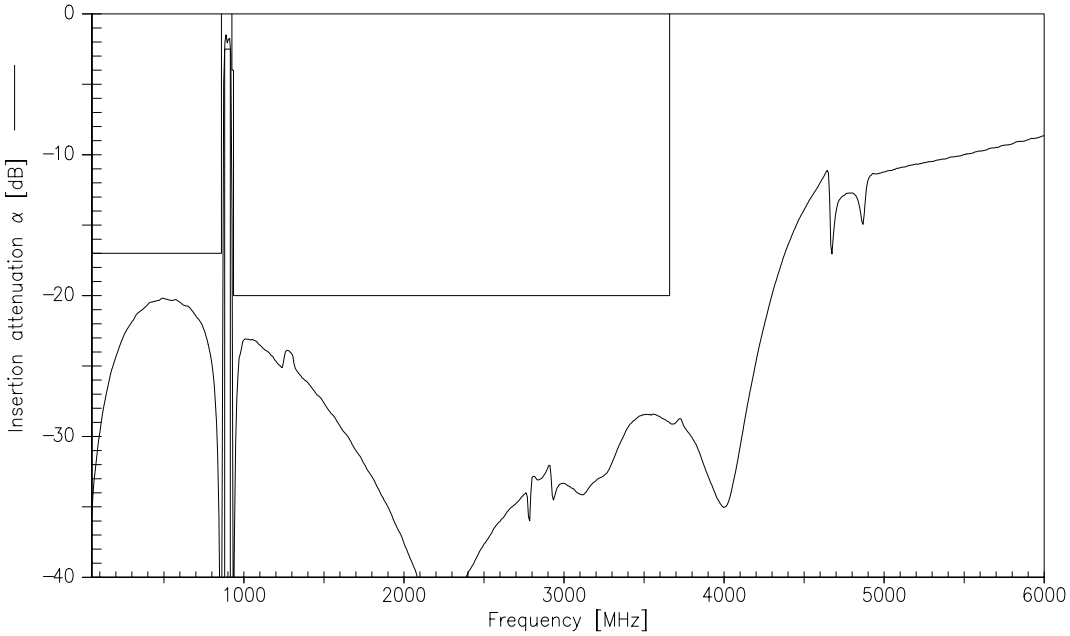
Operating temperature range: T = -10 to +80˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Center frequency	f_c	—	897,50	—	MHz
Maximum insertion attenuation	α_{max}				
880,0 ... 915,0 MHz		—	2,0	2,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
880,0 ... 915,0 MHz		—	0,8	1,3	dB
Input VSWR					
880,0 ... 915,0 MHz		—	1,7	2,0	
Output VSWR					
880,0 ... 915,0 MHz		—	1,7	2,0	
Attenuation	α				
0,0 ... 860,0 MHz		17	20		dB
925,0 ... 935,0 MHz		4	8		dB
935,0 ... 960,0 MHz		20	26		dB
960,0 ...3660,0 MHz		20	26		dB

Transfer function



Transfer function (wideband)



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