EPCOS

SAW Components

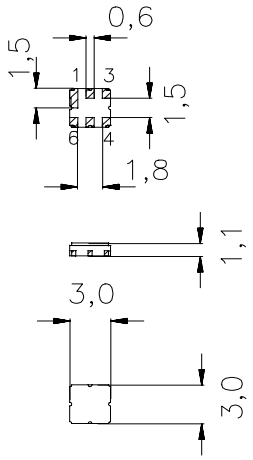
Date Sheet B4130

Data Sheet

Ceramic **P**ackage **DCC6C**

Features

- Low-loss RF filter for EGSM mobile systems
- Low amplitude ripple
- Usable passband 35 MHz
- No matching network required for operation at 50 Ω
- Ceramic Package for **S**urface **M**ounted **T**echnology (**SMT**)
- RoHS compatible



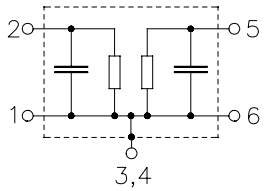
Dimensions in mm, approx. weight 37mg

Terminals

- Ni, gold-plated

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-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	
DC voltage	V_{DC}	3	V	
ESD voltage	V^*_{ESD}	100*	V	Machine Model, 10 pulses
Input power max.				
925,0 ... 960,0 MHz	P_{IN}	12	dBm	continuous wave, 85 ˚C
	P_{IN}	15	dBm	continuous wave, 55 ˚C
880,0 ... 915,0 MHz	P_{IN}	17	dBm	effective power in the on-state, duty cycle 4:8, 85 ˚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	—	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

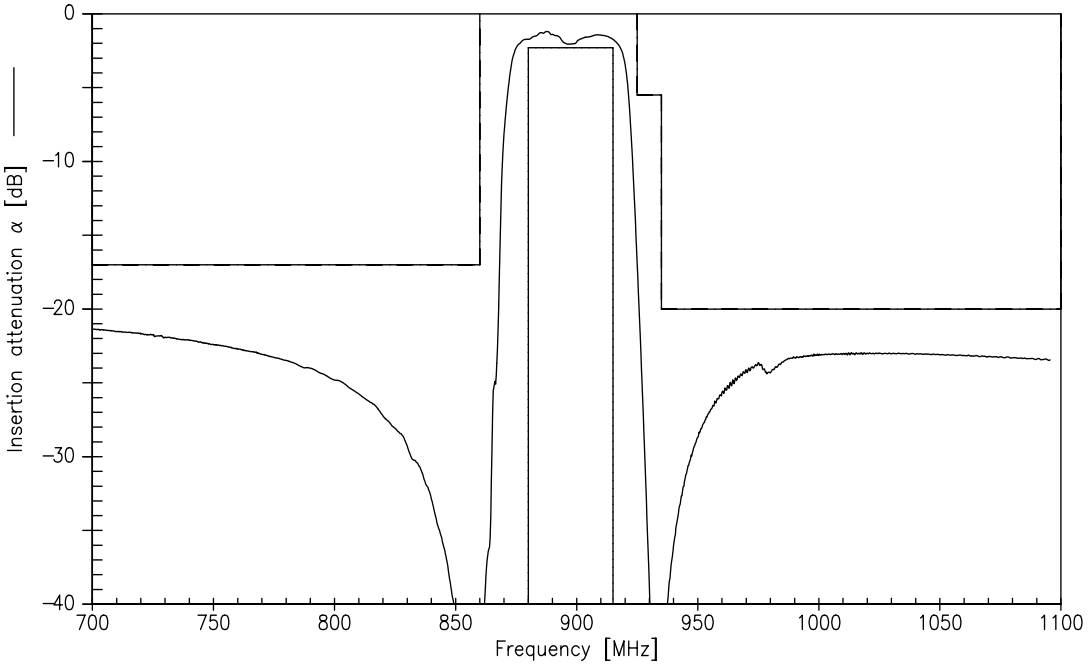
		min.	typ.	max.	
Center frequency	f_c	—	897,50	—	MHz
Maximum insertion attenuation	α_{max}				
880,0 ... 915,0 MHz		—	2,0	2,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
880,0 ... 915,0 MHz		—	0,8	1,3	dB
Input VSWR					
880,0 ... 915,0 MHz		—	1,7	2,0	
Output VSWR					
880,0 ... 915,0 MHz		—	1,7	2,0	
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

Characteristics

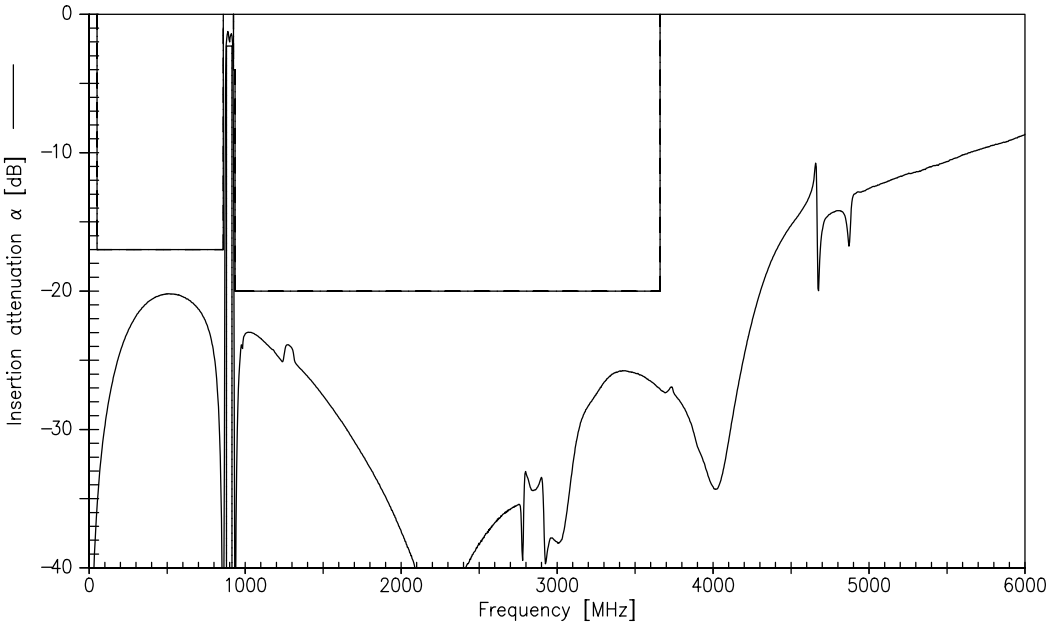
Operating temperature range: T = -30 to +85˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		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		3,2	7	—	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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