



SAW Components

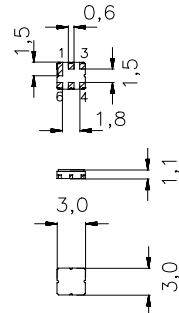
Data Sheet B4165

Data Sheet

EPCOS

Features

- Low-loss RF filter for iDEN mobile telephone, receive path
- Low amplitude ripple
- No matching network required for operation at $50\ \Omega$
- Ceramic Package for **Surface Mounted Technology (SMT)**

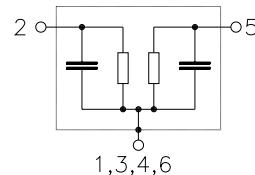
Ceramic package DCC6C

Terminals

- Gold-plated Ni

Dimensions in mm, approx. weight 0,037g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B4165	B39941-B4165-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)
Maximum ratings

Operable temperature range	T	$-30 / +70$	$^{\circ}\text{C}$	
Storage temperature range	T_{stg}	$-40 / +85$	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Input power max.	P_{IN}	0	dBm	source impedance $50\ \Omega$ continuous wave

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	—	938,0	—	—	MHz
Maximum insertion attenuation	α_{\max}	—	2,1	2,5	—	dB
	935,000 ... 941,000 MHz	—	0,2	1,0	—	dB
Amplitude ripple (p-p)	$\Delta\alpha$	—	3	10	—	ns
	935,000 ... 941,000 MHz	—	47	—	—	dB
Group delay ripple (p-p)	$\Delta\tau$	—	37	55	—	dB
	935,000 ... 941,000 MHz	—	27	52	—	dB
Attenuation	α_{\min}	0,000 ... 896,000 MHz	27	47	—	dB
	896,000 ... 902,000 MHz	37	55	—	—	dB
	989,825 ... 995,825 MHz	27	52	—	—	dB
	1044,650 ... 1050,650 MHz	37	52	—	—	dB
	1154,300 ... 1160,300 MHz	47	50	—	—	dB
	1160,300 ... 3200,000 MHz	27	35	—	—	dB
Input and output return loss		935,000 ... 941,000 MHz	12	14	—	dB

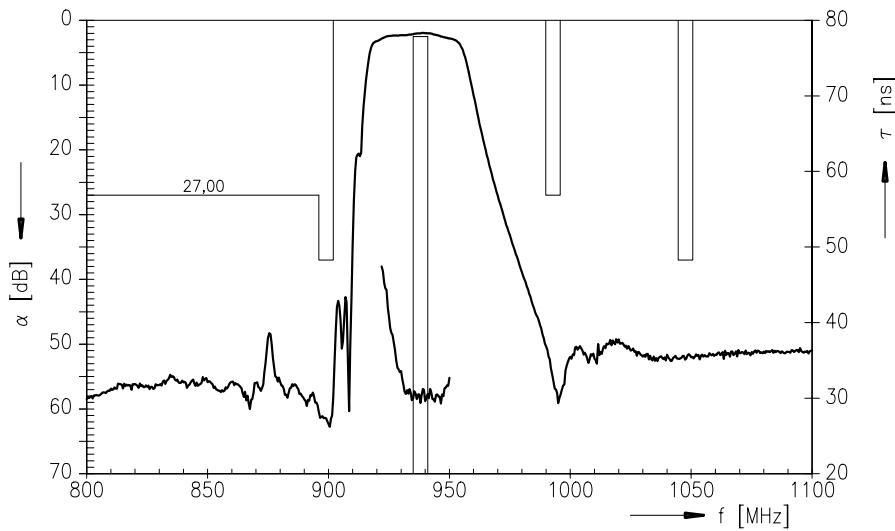
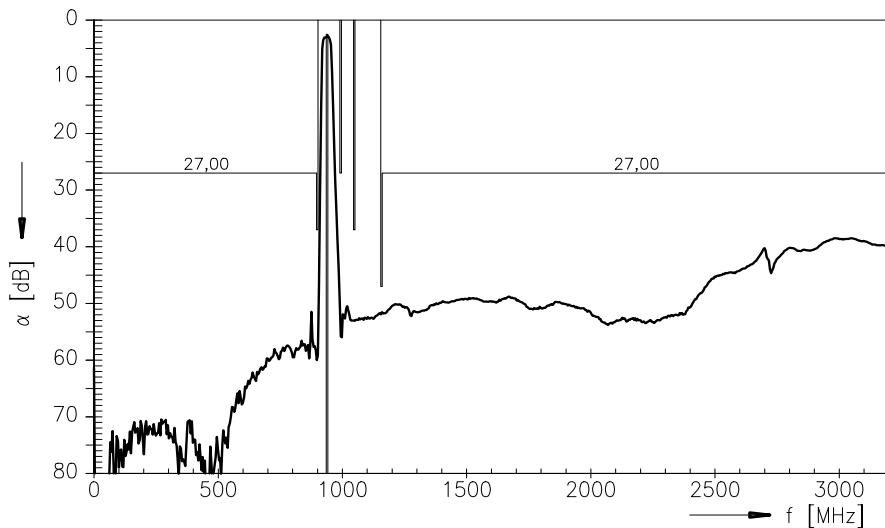
Characteristics

 Operating temperature range: $T = -30$ to $+70^\circ\text{C}$

 Terminating source impedance: $Z_S = 50 \Omega$

 Terminating load impedance: $Z_L = 50 \Omega$

			min.	typ.	max.	
Center frequency	f_c	—	938,0	—	—	MHz
Maximum insertion attenuation	α_{\max}	—	2,5	3,0	—	dB
	935,000 ... 941,000 MHz	—	0,5	1,0	—	dB
Amplitude ripple (p-p)	$\Delta\alpha$	—	3	10	—	ns
	935,000 ... 941,000 MHz	—	27	47	—	dB
Group delay ripple (p-p)	$\Delta\tau$	—	37	48	—	dB
	935,000 ... 941,000 MHz	—	27	50	—	dB
Attenuation	α_{\min}	0,000 ... 896,000 MHz	37	51	—	dB
	896,000 ... 902,000 MHz	27	50	—	dB	
	989,825 ... 995,825 MHz	37	51	—	dB	
	1044,650 ... 1050,650 MHz	47	50	—	dB	
	1154,300 ... 1160,300 MHz	27	35	—	dB	
	1160,300 ... 3200,000 MHz	12	14	—	dB	
Input and output return loss		935,000 ... 941,000 MHz	—	—	—	dB

Transfer function (25+/-2 °C)

Transfer function (wideband)


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