



SAW Components

Data Sheet B3835





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B3835

Low-Loss Filter for Mobile Communication

899,00 MHz

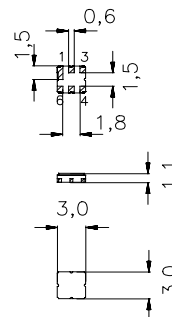
Data Sheet



Features

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

Ceramic package DCC6C



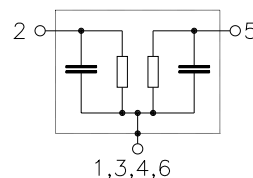
Terminals

- 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
B3835	B39901-B3835-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 20 / + 70	$^{\circ}\text{C}$	source impedance 50 Ω continuous wave
Storage temperature range	T_{stg}	- 40 / + 85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Input power max.	P_{IN}	7	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	—	899,00	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$	—	2,4	3,0	dB
	896,000 ... 902,000 MHz				
Amplitude ripple (p-p)	$\Delta\alpha$	—	0,5	1,0	dB
	896,000 ... 902,000 MHz				
Group delay ripple (p-p)	$\Delta\tau$	—	10	50	ns
	896,000 ... 902,000 MHz				
Attenuation	$\alpha_{\min}$				
	851,000 ... 870,000 MHz	42	48	—	dB
	935,000 ... 940,000 MHz	43	46	—	dB
	1050,650 ... 1055,650MHz	42	54	—	dB
	1205,300 ... 1210,300MHz	40	50	—	dB
	1359,950 ...1364,950MHz	35	46	—	dB
	1792,000 ...1802,000 MHz	25	42	—	dB
	1802,000 ...3000,000 MHz	15	36	—	dB
Input return loss					
	896,000 ... 902,000 MHz	10	16	—	dB
Output return loss					
	896,000 ... 902,000 MHz	10	15	—	dB



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Characteristics

Operating temperature range: $T = -20$ 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	—	899,00	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$	—	2,7	3,7	dB
	896,000 ... 902,000 MHz				
Amplitude ripple (p-p)	$\Delta\alpha$	—	0,8	1,2	dB
	896,000 ... 902,000 MHz				
Group delay ripple (p-p)	$\Delta\tau$	—	10	50	ns
	896,000 ... 902,000 MHz				
Attenuation	$\alpha_{\min}$				
	851,000 ... 870,000 MHz	42	46	—	dB
	935,000 ... 940,000 MHz	43	46	—	dB
	1050,650 ... 1055,650MHz	42	54	—	dB
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	1792,000 ...1802,000 MHz	25	42	—	dB
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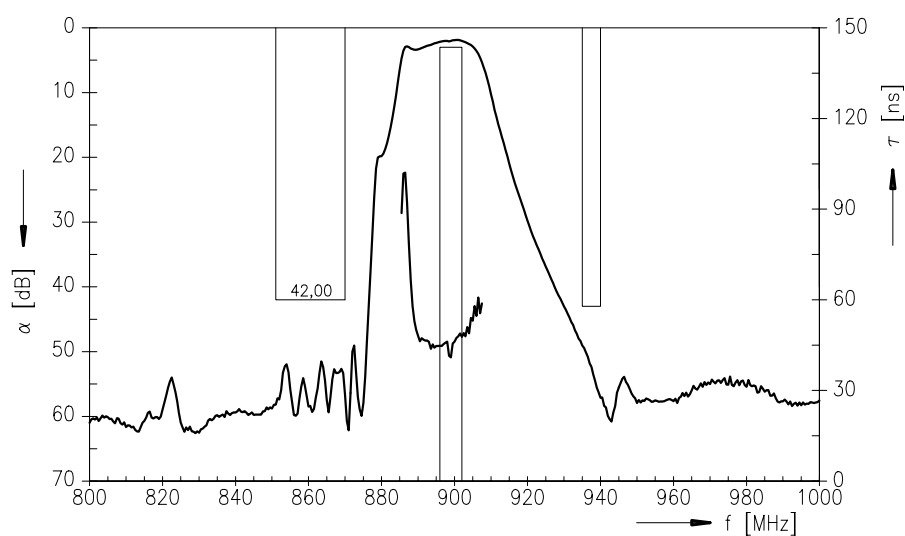
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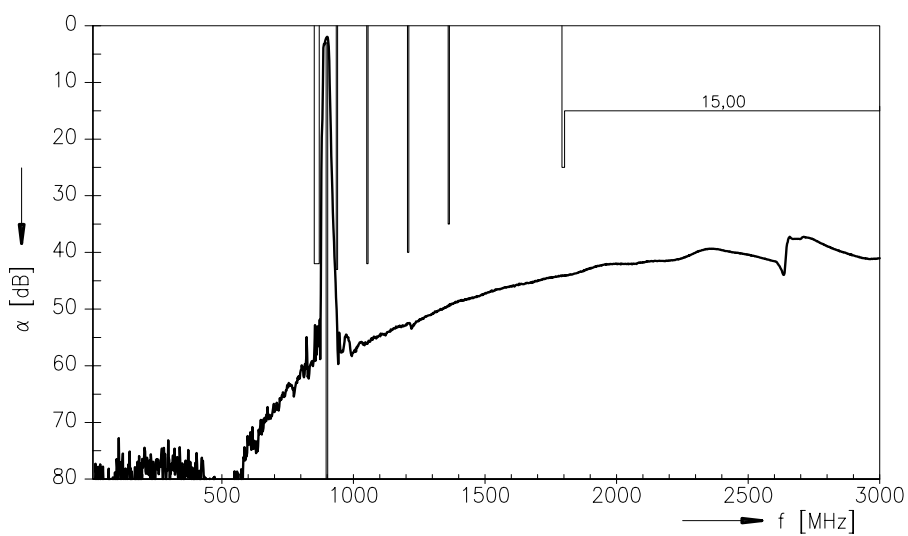
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Transfer function (25+/-2 °C)



Transfer function (25+/-2 °C, Wideband)





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