EPCOS

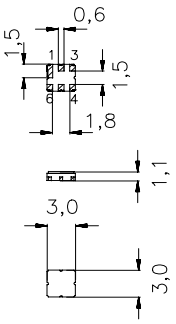
SAW Components

Data Sheet B3835

Features

Ceramic package **DCC6C**

- 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 **S**urface **M**ounted **T**echnology (**SMT**)



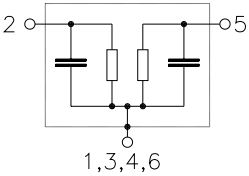
Terminals

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

Maximum ratings

Operable temperature range	T	– 20 / + 70	˚C	
Storage temperature range	T_{stg}	– 40 / + 85	˚C	
DC voltage	V_{DC}	0	V	
Input power max.	P_{IN}	7	dBm	source impedance 50 Ω continuous wave

Characteristics

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

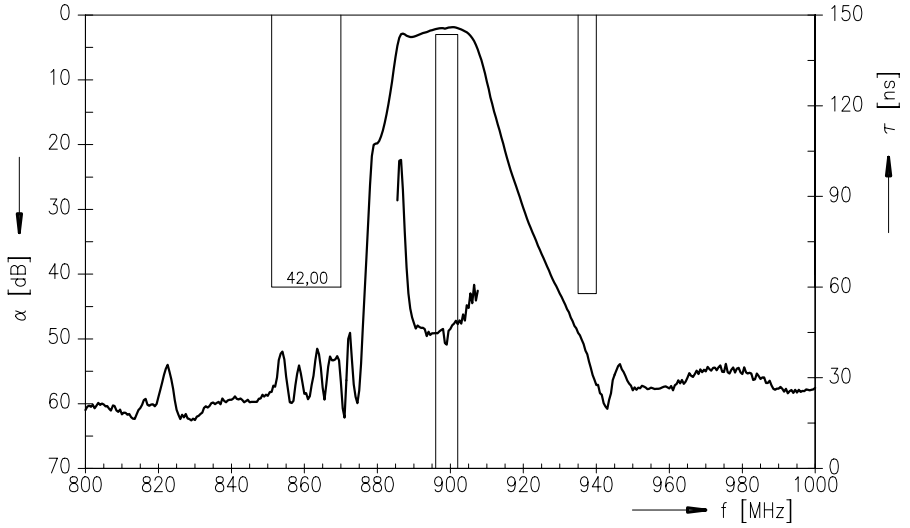
		min.	typ.	max.	
Center frequency	f_c	—	899,00	—	MHz
Maximum insertion attenuation	α_{max}				
896,000 ... 902,000 MHz		—	2,4	3,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
896,000 ... 902,000 MHz		—	0,5	1,0	dB
Group delay ripple (p-p)	$\Delta\tau$				
896,000 ... 902,000 MHz		—	10	50	ns
Attenuation	α_{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

Characteristics

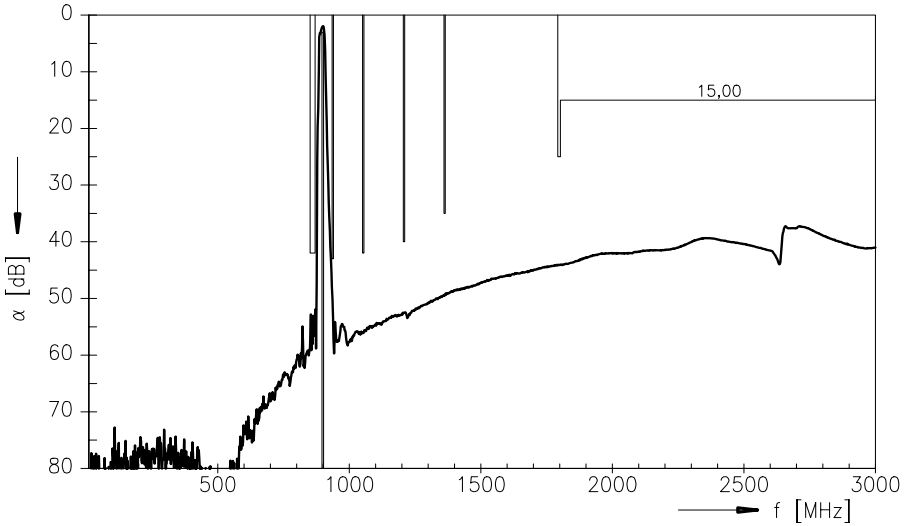
Operating temperature range: T = -20 to +70˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Center frequency	f_c	—	899,00	—	MHz
Maximum insertion attenuation	α_{max}				
896,000 ... 902,000 MHz		—	2,7	3,7	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
896,000 ... 902,000 MHz		—	0,8	1,2	dB
Group delay ripple (p-p)	$\Delta\tau$				
896,000 ... 902,000 MHz		—	10	50	ns
Attenuation	α_{min}				
851,000 ... 870,000 MHz		42	46	—	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

Transfer function (25+/-2 ˚C)



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



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This brochure replaces the previous edition.

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