



SAW Components

Data Sheet B3716





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B3716

Low Loss Filter

869,0 MHz

Data Sheet

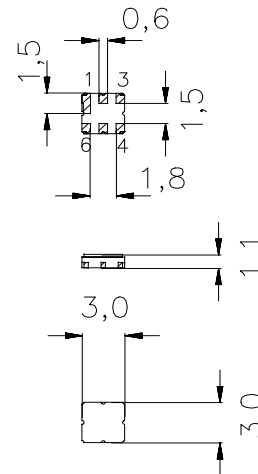
Ceramic package DCC6C

Features

- RF low-loss filter for remote control receivers
- Package for **Surface Mounted Technology (SMT)**
- Hermetically sealed ceramic package
- No matching network required for operation at 50 Ω
- Passivation layer: Elpas
- AEC-Q200 qualified component family

Terminals

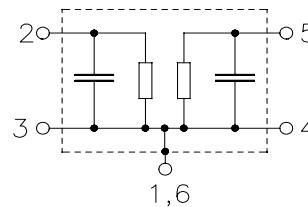
- Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

- 2 Input
- 5 Output
- 1,3,4,6 Ground



Type	Ordering code	Marking and Package according to	Packing according to
B3716	B39871-B3716-U410	C61157-A7-A67	F61074-V8168-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_A	-40/+85	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_S	13	dBm	within passband (source 50 Ω)



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Characteristics

Reference temperature: $T_A = 25\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ.	max.		
Center frequency	f_c	—	869,0	—	MHz	
Maximum insertion attenuation						
	868,00 ... 870,00 MHz	α_{max}	—	2,5	3,0	dB
Amplitude ripple (p-p)						
	868,00 ... 870,00 MHz	$\Delta\alpha$	—	0,3	0,7	dB
Attenuation						
	10,00 ... 838,00 MHz	α	40	43	—	dB
	838,00 ... 856,40 MHz		24	32	—	dB
	856,40 ... 858,50 MHz		20	26	—	dB
	880,00 ... 883,00 MHz		23	32	—	dB
	883,00 ... 893,00 MHz		29	32	—	dB
	893,00 ... 1200,00 MHz		45	48	—	dB
	1200,00 ... 2000,00 MHz		31	35	—	dB
Temperature coefficient of frequency	TC_f	—	-30	—	ppm/K	



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Characteristics

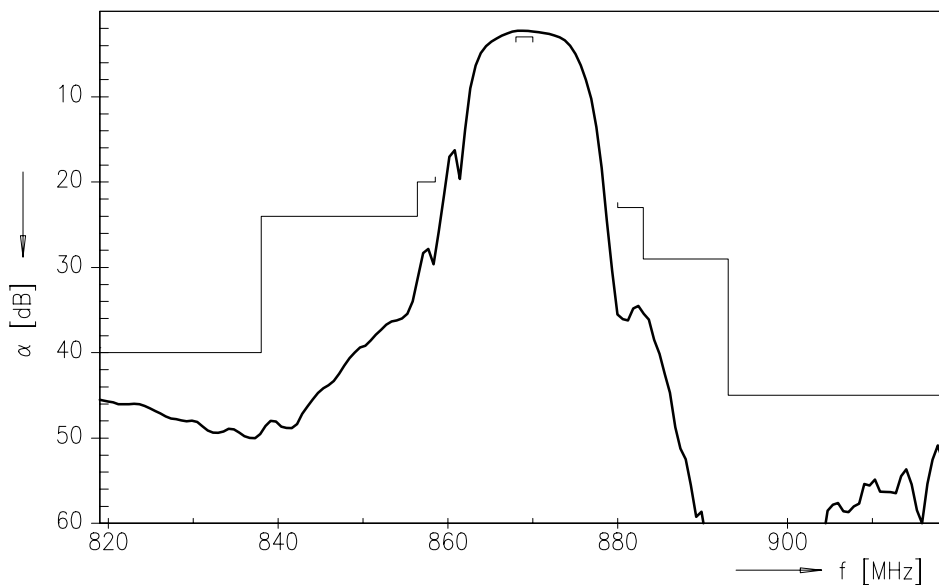
Reference temperature: $T_A = -40 \dots +85 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 50 \text{ } \Omega$

		min.	typ.	max.		
Center frequency	f_c	—	869,0	—	MHz	
Maximum insertion attenuation						
	868,00 ... 870,00 MHz	α_{max}	—	2,5	3,9	dB
Amplitude ripple (p-p)						
	868,00 ... 870,00 MHz	$\Delta\alpha$	—	0,6	1,6	dB
Attenuation						
	10,00 ... 838,00 MHz	α	40	43	—	dB
	838,00 ... 856,40 MHz		24	32	—	dB
	856,40 ... 858,50 MHz		14	26	—	dB
	880,00 ... 883,00 MHz		10	32	—	dB
	883,00 ... 893,00 MHz		29	32	—	dB
	893,00 ... 1200,00 MHz		45	48	—	dB
	1200,00 ... 2000,00 MHz		31	35	—	dB

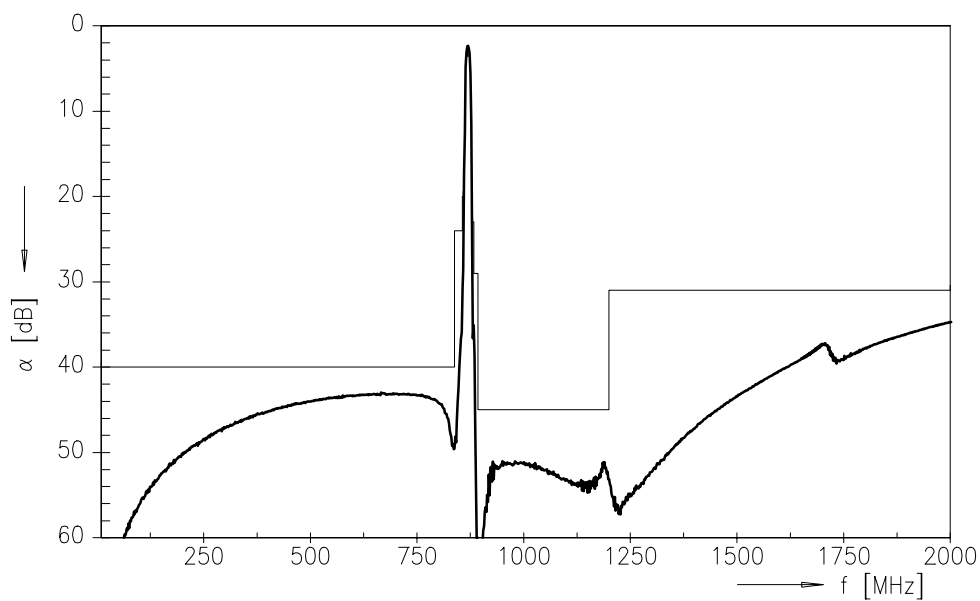


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Transfer function



Transfer function (wideband)





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