EPCOS

SAW Components

Data Sheet B3716

Data Sheet

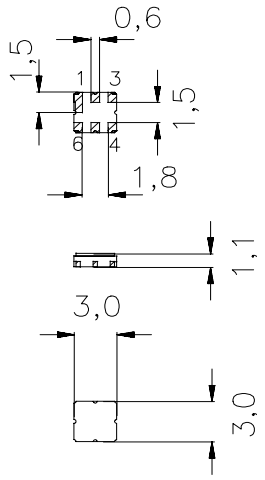
Ceramic package **DCC6C**

Features

- RF low-loss filter for remote control receivers
- Package for **S**urface **M**ounted **T**echnology (**SMT**)
- Hermetically sealed ceramic package
- No matching network required for operation at 50 Ω
- Passivation layer: Elpas
- AEC-Q200 qualified component family

Terminals

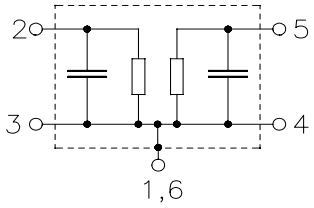
- Ni, gold plated



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 **S**ensitive **D**evice (**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)

Characteristics

Reference temperature: T_A = 25 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

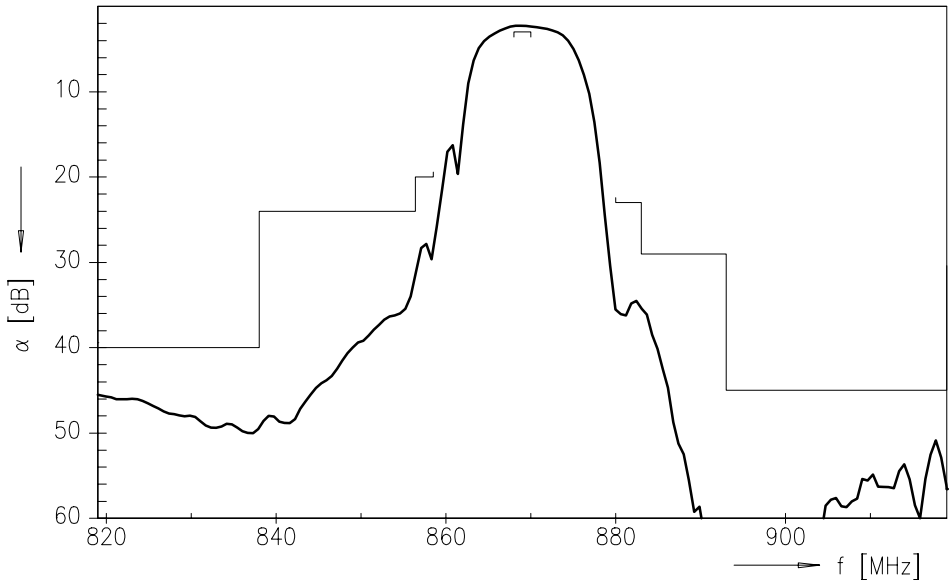
		min.	typ.	max.	
Center frequency	f_c	—	869,0	—	MHz
Maximum insertion attenuation					
868,00 ... 870,00 MHz	α_{max}	—	2,5	3,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
868,00 ... 870,00 MHz		—	0,3	0,7	dB
Attenuation	α				
10,00 ... 838,00 MHz		40	43	—	dB
838,00 ... 856,40 MHz		24	32	—	dB
856,40 ... 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

Characteristics

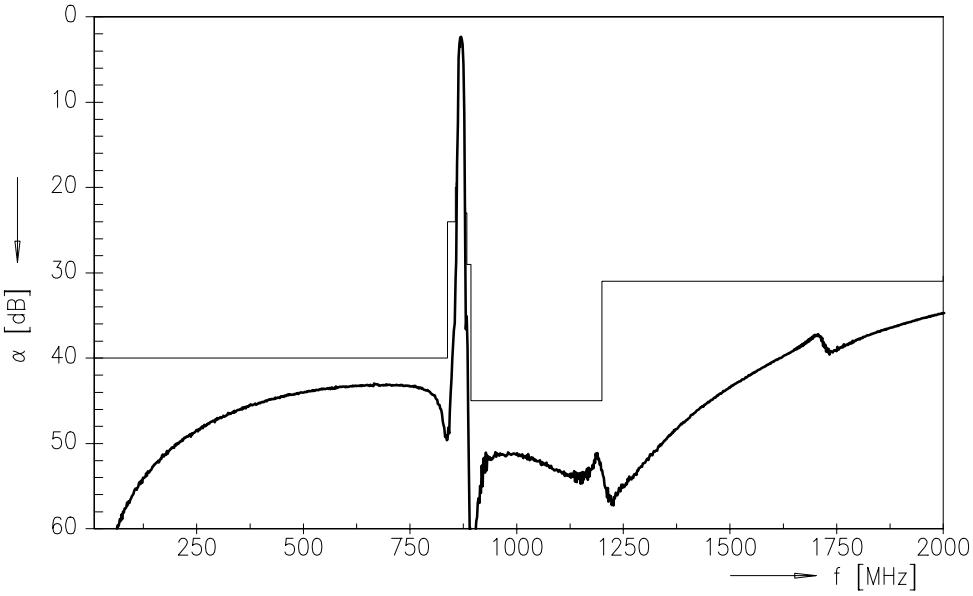
Reference temperature: T_A = -40 ... +85 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		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)	$\Delta\alpha$				
868,00 ... 870,00 MHz		—	0,6	1,6	dB
Attenuation	α				
10,00 ... 838,00 MHz		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

Transfer function



Transfer function (wideband)



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This brochure replaces the previous edition.

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