



SAW Components

Data Sheet B3715

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a bright, circular highlight in the center of each, giving them a three-dimensional appearance. They are set against a dark, textured background that includes a faint, glowing globe and circuitry patterns, suggesting a high-tech or electronic theme.



SAW Components

B3715

Low Loss Filter

869,0 MHz

Data Sheet

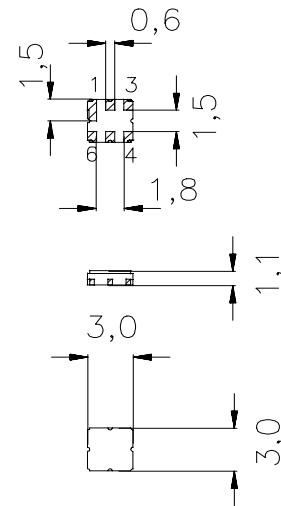
Ceramic package **DCC6C**

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

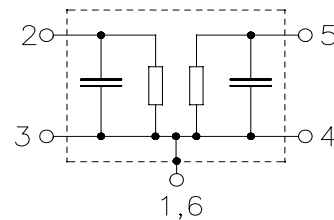
- Ni, gold plated



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
B3715	B39871-B3715-U410	C61157-A7-A67	F61074-V8168-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_A	-40/+85	$^{\circ}\text{C}$	
Storage temperature range	T_{stg}	-40/+85	$^{\circ}\text{C}$	
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	$\alpha_{\max}$	—	2,4	3,1	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
868,00 ... 870,00 MHz		—	0,6	1,2	dB
Attenuation	α				
10,00 ... 845,00 MHz		37	41	—	dB
845,00 ... 851,00 MHz		32	36	—	dB
851,00 ... 858,00 MHz		20	24	—	dB
883,00 ... 892,00 MHz		35	40	—	dB
892,00 ... 1000,00 MHz		42	47	—	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	$\alpha_{\max}$	—	2,6	3,3	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
868,00 ... 870,00 MHz		—	0,6	1,2	dB
Attenuation	α				
10,00 ... 845,00 MHz		37	41	—	dB
845,00 ... 851,00 MHz		32	36	—	dB
851,00 ... 856,80 MHz		20	24	—	dB
883,00 ... 892,00 MHz		20	35	—	dB
892,00 ... 1000,00 MHz		42	47	—	dB
Temperature coefficient of frequency	TC_f	—	-30	—	ppm/K



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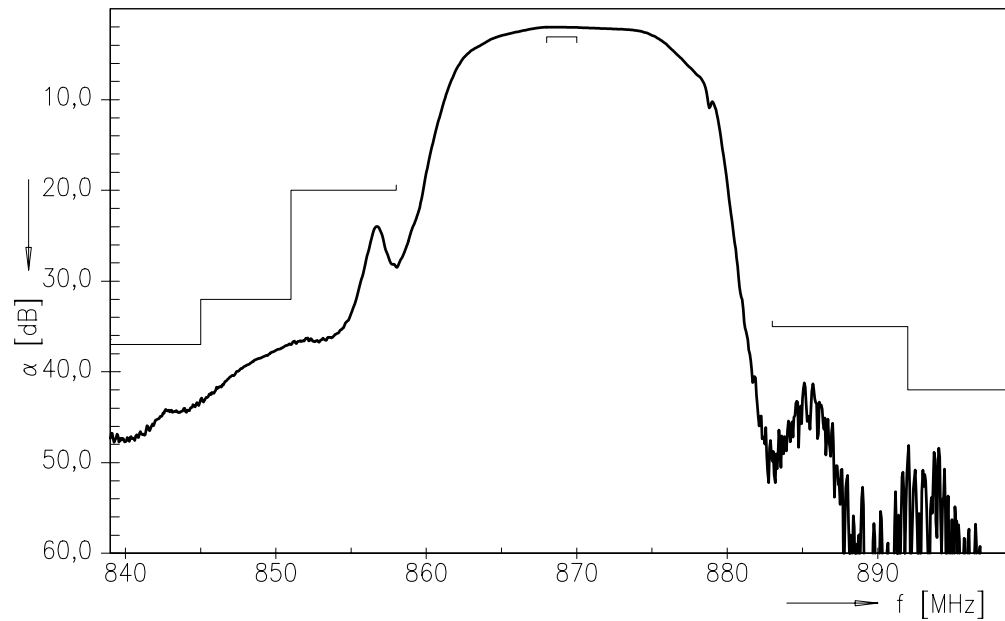
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Low Loss Filter

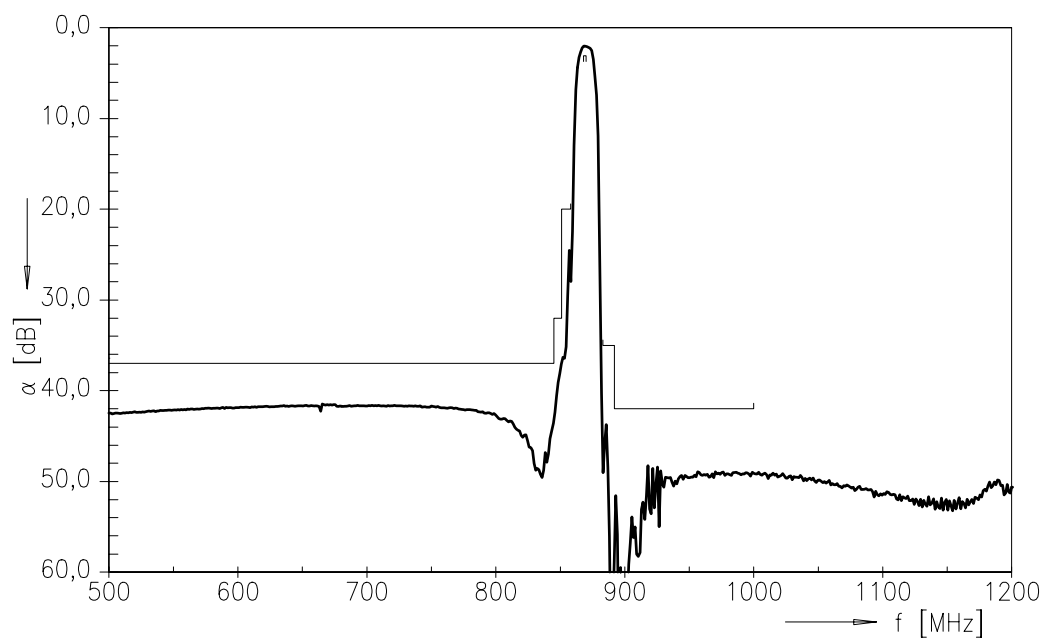
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Transfer function



Transfer function (wideband)





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