



# SAW Components

Data Sheet B3715





**SAW Components**

**B3715**

**Low Loss Filter**

**869,0 MHz**

**Data Sheet**

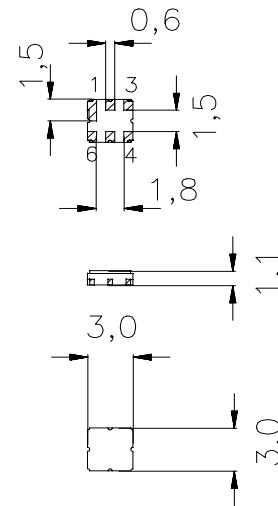
Ceramic package **DCC6C**

**Features**

- RF low-loss filter for remote control receivers
- Package for **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**

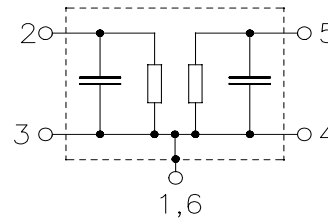
- Ni, gold plated



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

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

**Maximum ratings**

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



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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.	
<b>Center frequency</b>	$f_c$	—	869,0	—	MHz
<b>Maximum insertion attenuation</b>					
	868,00 ... 870,00 MHz $\alpha_{max}$	—	2,4	3,1	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
	868,00 ... 870,00 MHz	—	0,6	1,2	dB
<b>Attenuation</b>	$\alpha$				
	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
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-30	—	ppm/K



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Characteristics

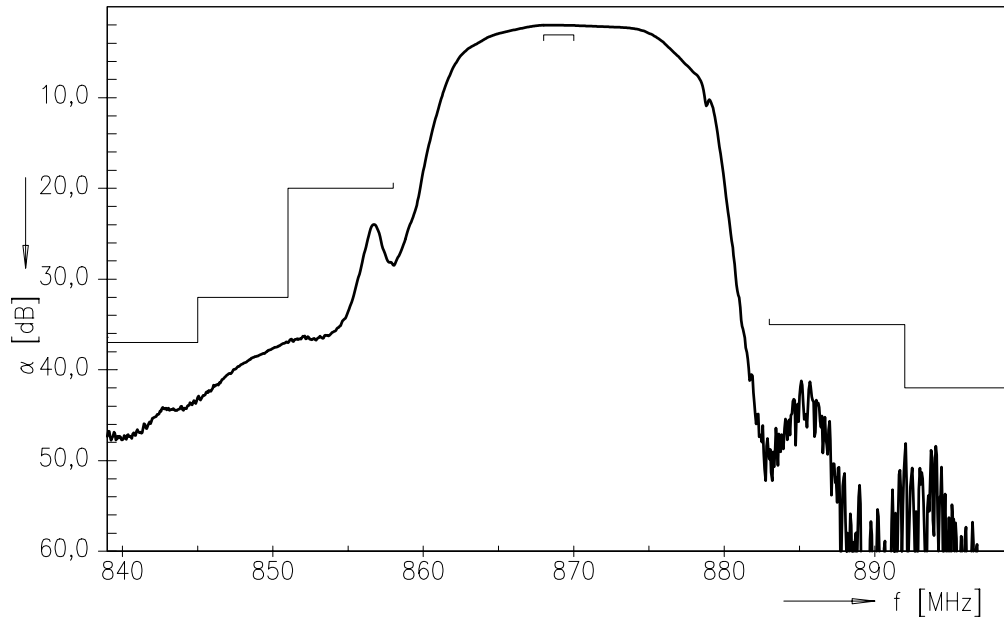
Reference temperature:  $T_A = -40 \dots +85 \text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \text{ } \Omega$   
 Terminating load impedance:  $Z_L = 50 \text{ } \Omega$

		min.	typ.	max.	
<b>Center frequency</b>	$f_c$	—	869,0	—	MHz
<b>Maximum insertion attenuation</b>					
	868,00 ... 870,00 MHz $\alpha_{\max}$	—	2,6	3,3	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
	868,00 ... 870,00 MHz	—	0,6	1,2	dB
<b>Attenuation</b>	$\alpha$				
	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
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-30	—	ppm/K

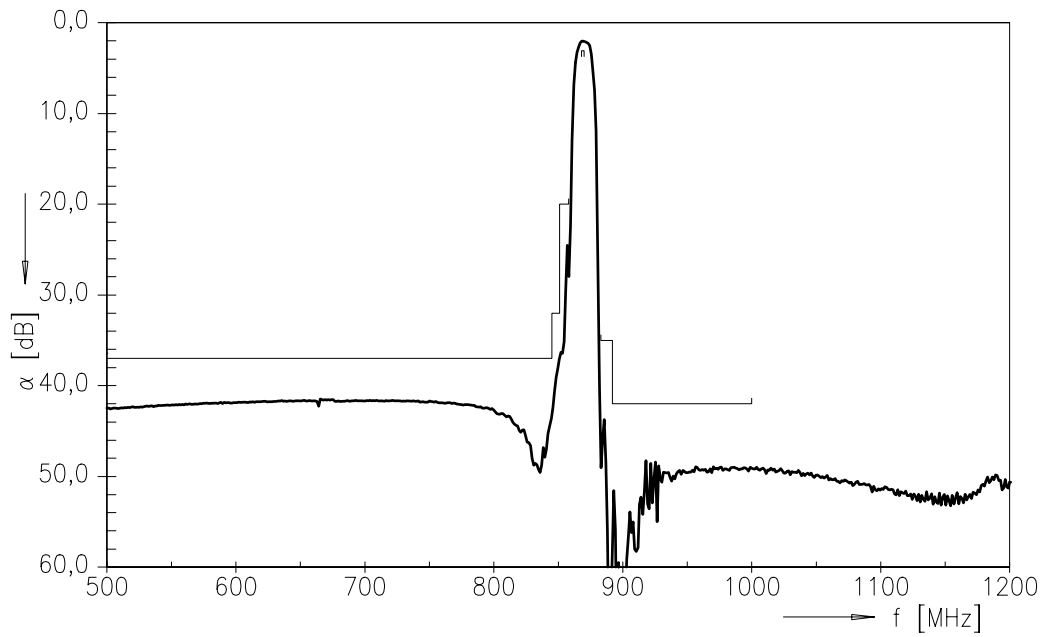


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Transfer function



Transfer function (wideband)





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**Published by EPCOS AG**

**Surface Acoustic Wave Components Division, SAW CE AE PD**

**P.O. Box 80 17 09, D-81617 München**

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