



**THE DATASHEET OF  
B39871B3716U410**





# SAW Components

Data Sheet B3716





**SAW Components**

**B3716**

**Low Loss Filter**

**869,0 MHz**

**Data Sheet**

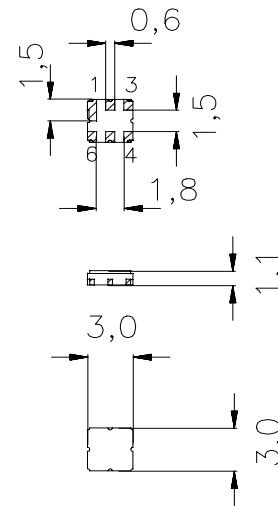
Ceramic package **DCC6C**

**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**

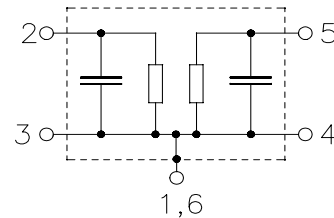
- Ni, gold plated



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
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	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	



Data Sheet

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 $\alpha_{max}$	—	2,5	3,0	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
	868,00 ... 870,00 MHz	—	0,3	0,7	dB
<b>Attenuation</b>	$\alpha$				
	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
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-30	—	ppm/K



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Characteristics

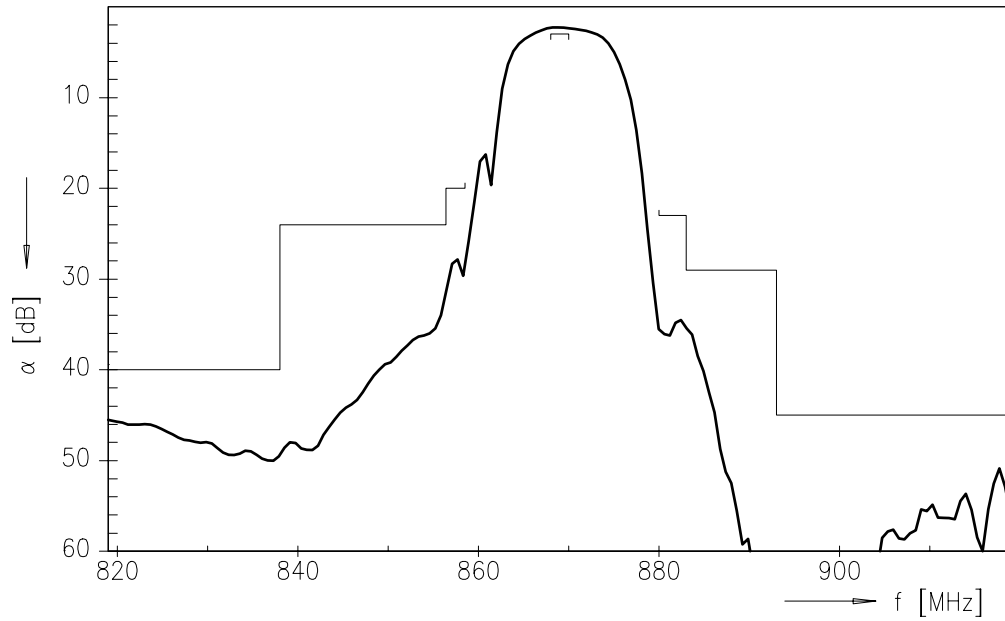
Reference temperature:  $T_A = -40 \dots +85 \text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \text{ } \Omega$   
 Terminating load impedance:  $Z_L = 50 \text{ } \Omega$

		min.	typ.	max.	
<b>Center frequency</b>	$f_c$	—	869,0	—	MHz
<b>Maximum insertion attenuation</b>					
	868,00 ... 870,00 MHz $\alpha_{\max}$	—	2,5	3,9	dB
<b>Amplitude ripple (p-p)</b>					
	868,00 ... 870,00 MHz $\Delta\alpha$	—	0,6	1,6	dB
<b>Attenuation</b>					
	10,00 ... 838,00 MHz $\alpha$	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

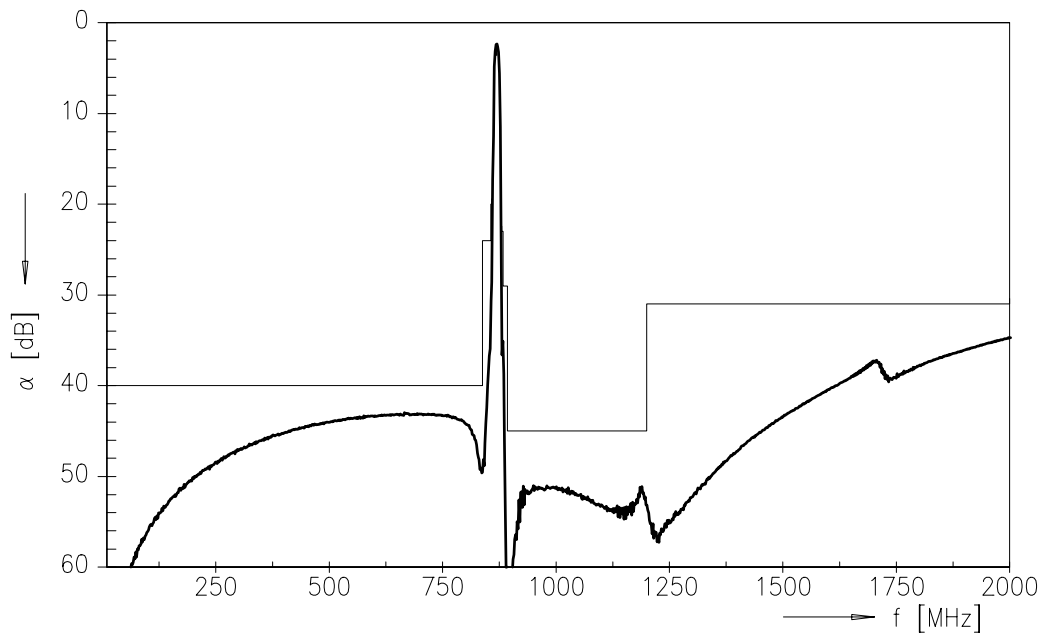


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Transfer function



Transfer function (wideband)





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**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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