

# SAW Components

Data Sheet B3716





SAW Components B3716
Low Loss Filter 869,0 MHz

**Data Sheet** 

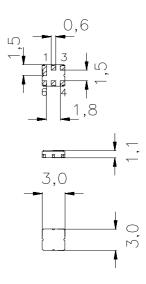
#### **Features**

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

#### **Terminals**

■ Ni, gold plated

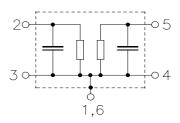
# Ceramic package DCC6C



Dimensions in mm, approx. weight 0,1 g

# Pin configuration

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



Туре	Ordering code	Marking and Package	Packing		
		according to	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	$T_{\rm stg}$	-40/+85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	$P_{S}$	13	dBm	within passband (source 50 $\Omega$ )



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#### Characteristics

Reference temperature:  $T_{\rm A}=25\,^{\circ}{\rm C}$ Terminating source impedance:  $Z_{\rm S}=50\,\Omega$ Terminating load impedance:  $Z_{\rm L}=50\,\Omega$ 

		min.	typ.	max.	
Center frequency	f <sub>C</sub>	_	869,0	_	MHz
Maximum insertion attenuation					
868,00 870,00 MHz	$\alpha_{\text{max}}$	_	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 <sub>f</sub>	_	-30	_	ppm/K



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#### Characteristics

Reference temperature:

 $T_{A} = -40 \dots +85 \,^{\circ} \text{C}$   $Z_{S} = 50 \,\Omega$   $Z_{L} = 50 \,\Omega$ Terminating source impedance: Terminating load impedance:

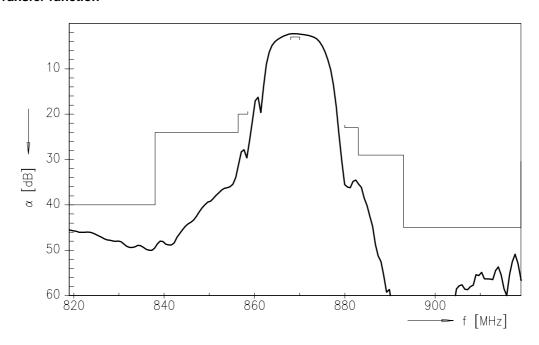
		min.	typ.	max.	
Center frequency		_	869,0	_	MHz
Maximum insertion attenuation					
868,00 870,00 MHz	$\alpha_{\text{max}}$	_	2,5	3,9	dB
Amplitude ripple (p-p)					
868,00 870,00 MHz		_	0,6	1,6	dB
Attenuation	α				
10,00 838,00 MHz	C.	40	43	_	dB
838,00 856,40 MHz		24	32	_	dB
856,40 858,50 MHz		14	26	_	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



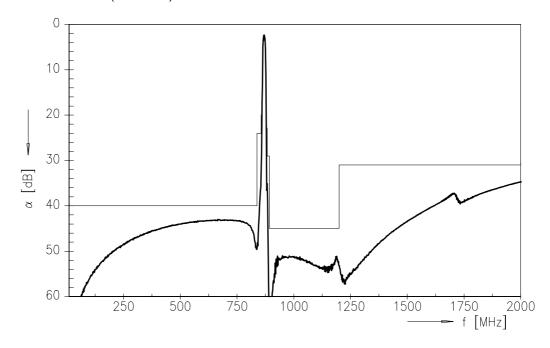
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# **Transfer function**



# Transfer function (wideband)





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