



SAW Components

Data Sheet B3716

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a blue glow and are positioned diagonally across the frame. In the background, there is a faint, stylized globe with circuitry patterns, suggesting a global network or technological theme. The overall color scheme is dark with blue and white highlights.



SAW Components

B3716

Low Loss Filter

869,0 MHz

Data Sheet

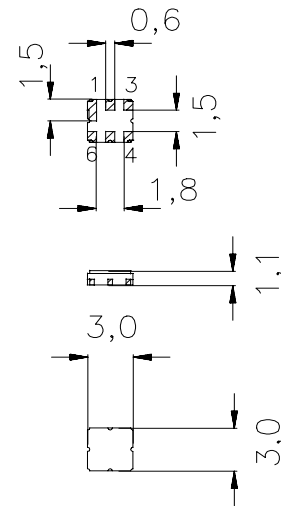
Ceramic package **DCC6C**

Features

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

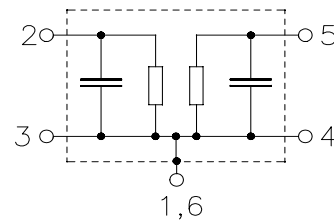
- Ni, gold plated



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
B3716	B39871-B3716-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)



SAW Components

B3716

Low Loss Filter

869,0 MHz

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.	
Center frequency	f_c	—	869,0	—	MHz
Maximum insertion attenuation					
868,00 ... 870,00 MHz	$\alpha_{\max}$	—	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



SAW Components

B3716

Low Loss Filter

869,0 MHz

Data Sheet

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	$\alpha_{\max}$	—	2,5	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



SAW Components

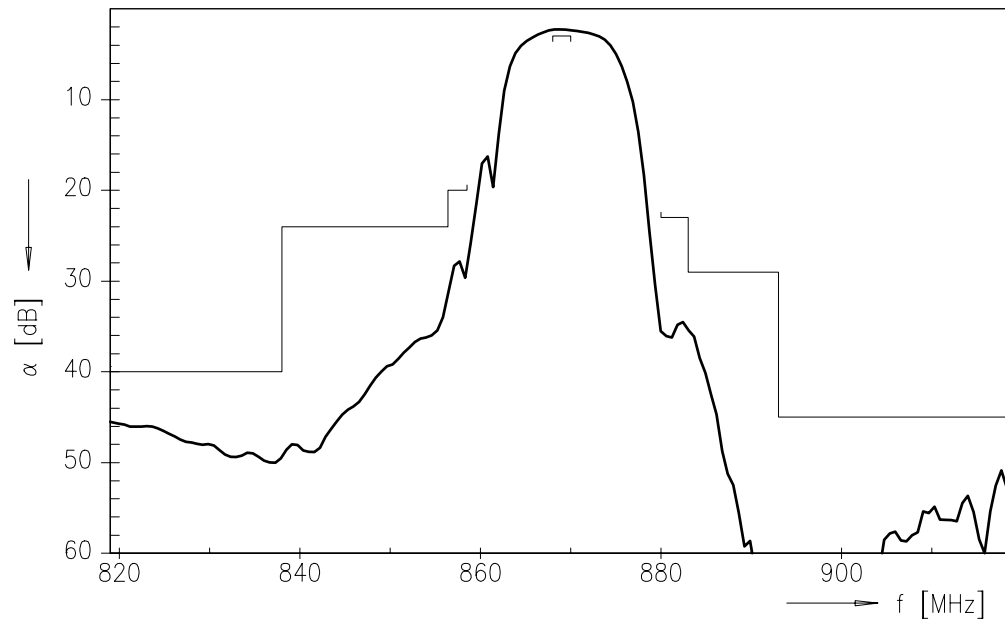
B3716

Low Loss Filter

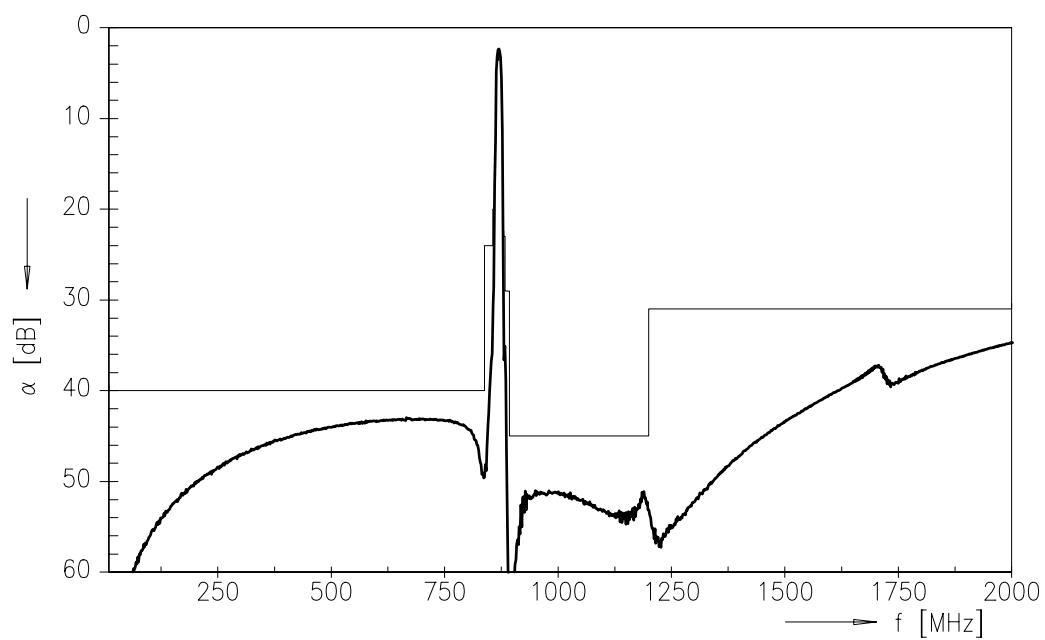
869,0 MHz

Data Sheet

Transfer function



Transfer function (wideband)





SAW Components	B3716
Low Loss Filter	869,0 MHz

Data Sheet

Published by EPCOS AG

Surface Acoustic Wave Components Division, SAW CE AE PD

P.O. Box 80 17 09, D-81617 München

© EPCOS AG 2004. All Rights Reserved. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

The information contained in this brochure describes the type of component and shall not be considered as guaranteed characteristics. Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.