



# SAW Components

Data Sheet B3705





**SAW Components**

**B3705**

**Low Loss Filter**

**915,00 MHz**

**Data Sheet**

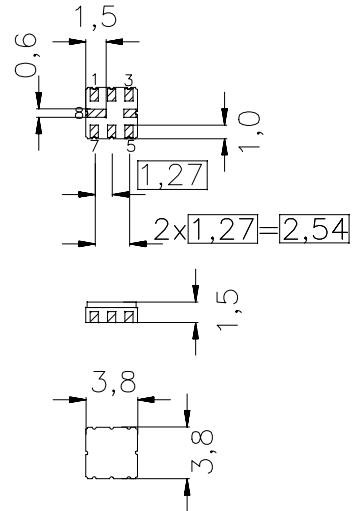
**Features**

- RF low-loss filter for wireless audio application
- Package for **Surface Mounted Technology (SMT)**
- Hermetically sealed ceramic package
- No Matching network required for operation at 50 Ω

**Terminals**

- Ni, gold plated

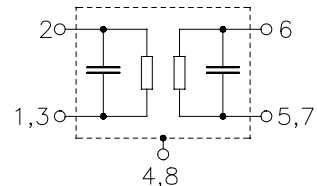
Ceramic package **QCC8B**



Dimensions in mm, approx. weight 0,1 g

**Pin configuration**

- 2 Input
- 1,3 Input Ground
- 6 Output
- 5,7 Output Ground
- 4,8 to be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B3705	B39921-B3705-Z810	C61157-A7-A46	F61074-V8070-Z000

Electrostatic Sensitive Device (ESD)

**Maximum ratings**

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



**SAW Components**

**B3705**

**Low Loss Filter**

**915,00 MHz**

**Data Sheet**

**Characteristics (Spec. 1)**

Reference temperature:  $T_A = +5 \dots 65 \text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \text{ } \Omega$   
 Terminating load impedance:  $Z_L = 50 \text{ } \Omega$

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Center frequency</b>	$f_c$	—	914,70	—	MHz
<b>Maximum insertion attenuation</b>					
913,90 ... 915,50 MHz	$\alpha_{\max}$	—	4,0	6,0	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
913,90 ... 915,50 MHz		—	1,0	2,0	dB
<b>Relative attenuation (relative to <math>\alpha_{\max}</math>)</b>	$\alpha_{\text{rel}}$				
10,00 ... 890,00 MHz		43	48	—	dB
892,30 ... 895,10 MHz		30	35	—	dB
903,40 ... 904,60 MHz		25	35	—	dB
955,00 ... 1100,00 MHz		38	45	—	dB
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-30	—	ppm/K



**SAW Components**

**B3705**

**Low Loss Filter**

**915,00 MHz**

**Data Sheet**

**Characteristics (Spec. 2)**

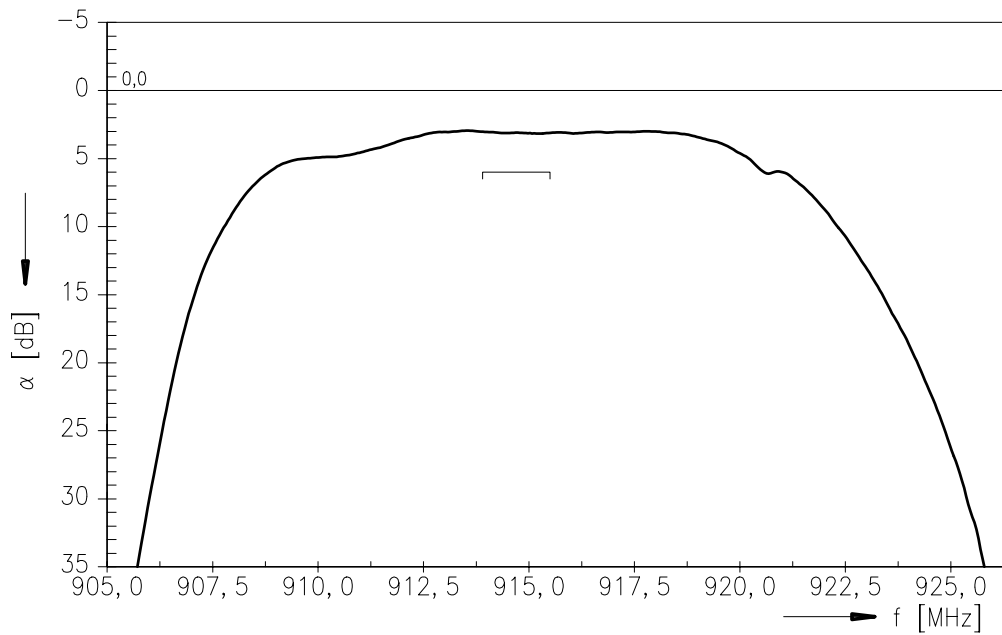
Reference temperature:  $T_A = -40 \dots +85 \text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \text{ } \Omega$   
 Terminating load impedance:  $Z_L = 50 \text{ } \Omega$

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Center frequency</b>	$f_c$	—	914,70	—	MHz
<b>Maximum insertion attenuation</b>					
914,50 ... 916,00 MHz	$\alpha_{\max}$	—	4,0	6,0	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
914,50 ... 916,00 MHz		—	1,0	2,0	dB
<b>Relative attenuation (relative to <math>\alpha_{\max}</math>)</b>	$\alpha_{\text{rel}}$				
10,00 ... 890,00 MHz		43	48	—	dB
892,30 ... 895,10 MHz		30	35	—	dB
955,00 ... 1100,00 MHz		38	45	—	dB
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-30	—	ppm/K

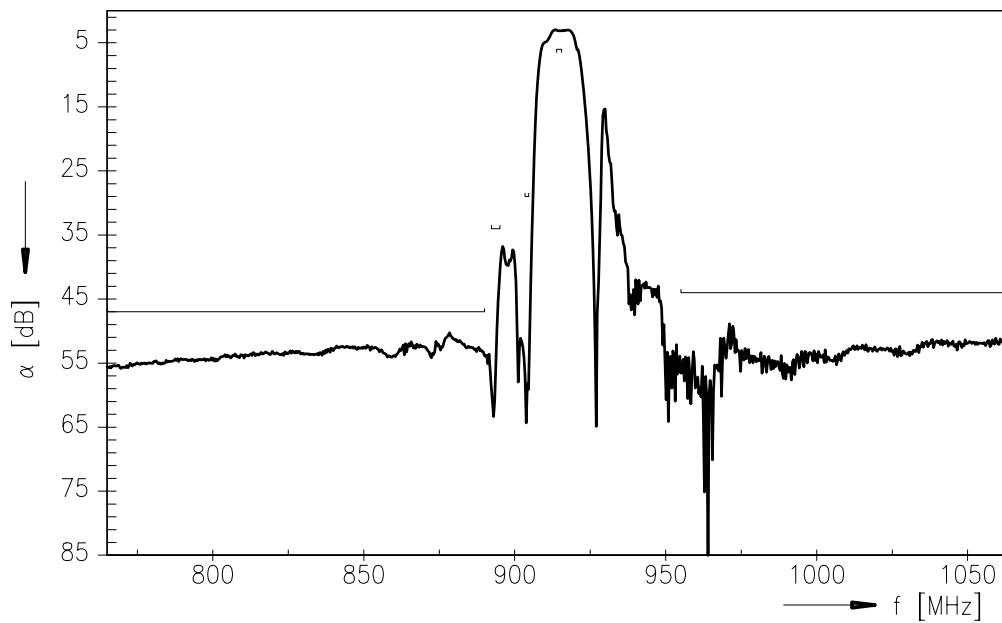


Data Sheet

Normalized frequency response (Spec.1)



Normalized frequency response (Spec. 1) (wideband)





**SAW Components**

**B3705**

**Low Loss Filter**

**915,00 MHz**

Data Sheet

**Published by EPCOS AG**

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

**P.O. Box 80 17 09, 81617 Munich, GERMANY**

©.EPCOS AG 2002. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

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.