



# SAW Components

Data Sheet B3705

Data Sheet

An abstract, grayscale graphic featuring a large, stylized, and slightly blurred "EPCOS" logo. The logo is set against a background of curved, overlapping bands and a faint world map, creating a sense of global connectivity and technological advancement.



## SAW Components

B3705

### Low Loss Filter

915,00 MHz

#### Data Sheet

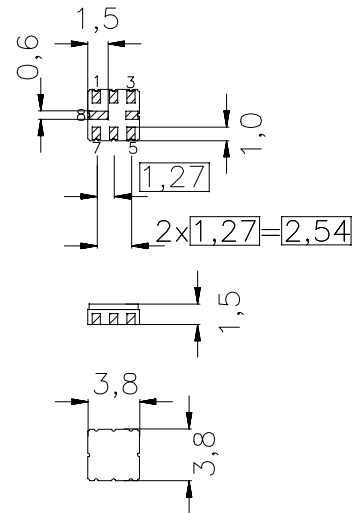
#### Features

- RF low-loss filter for wireless audio application
- Package for **S**urface **M**ounted **T**echnology (**SMT**)
- Hermetically sealed ceramic package
- No Matching network required for operation at 50  $\Omega$

#### Terminals

- Ni, gold plated

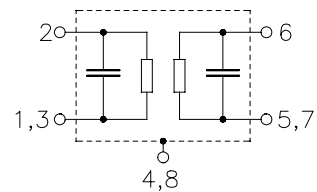
Ceramic package **QCC8B**



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	$^{\circ}\text{C}$	
Storage temperature range	$T_{\text{stg}}$	-40/+85	$^{\circ}\text{C}$	
DC voltage	$V_{\text{DC}}$	0	V	
Source power	$P_S$	0	dBm	source impedance 50 $\Omega$



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#### 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:  $Z_L = 50 \text{ } \Omega$

		min.	typ.	max.	
<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



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#### 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:  $Z_L = 50 \text{ } \Omega$

		min.	typ.	max.	
<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



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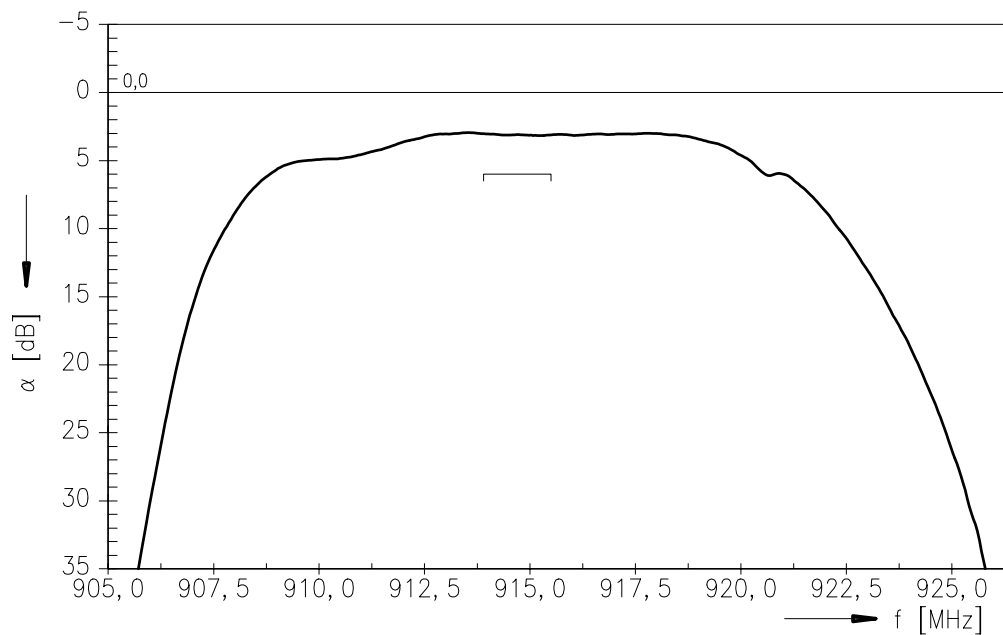
B3705

Low Loss Filter

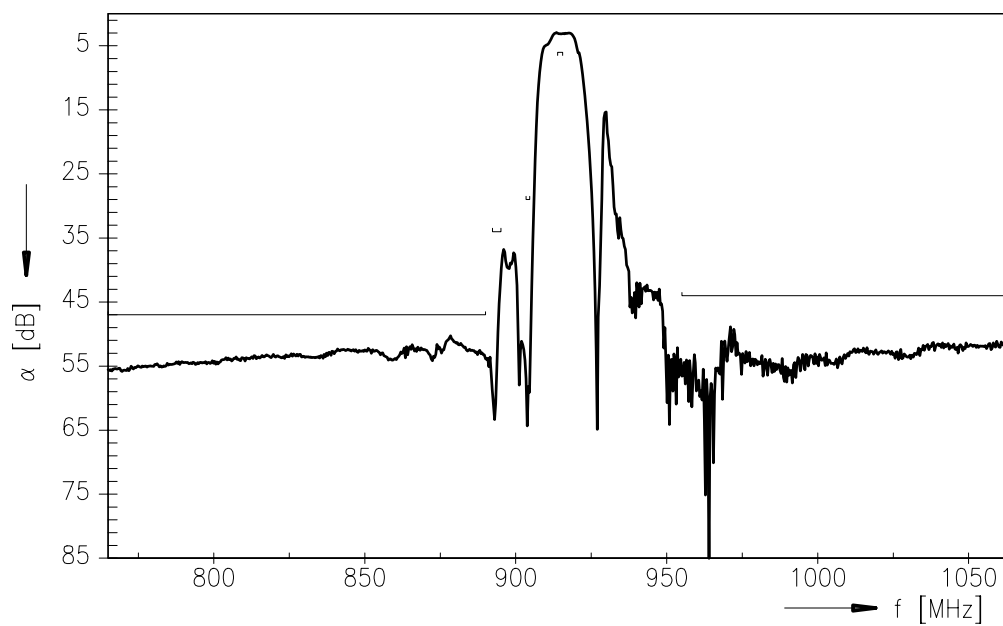
915,00 MHz

Data Sheet

Normalized frequency response (Spec.1)



Normalized frequency response (Spec. 1) (wideband)





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<b>Low Loss Filter</b>	<b>915,00 MHz</b>

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