



SAW Components

Data Sheet B3705

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, white letters. The letters are slightly tilted and appear to be floating or emerging from a dark, textured background. Behind the letters, there is a faint, stylized globe showing continents. To the left of the globe, there is a curved, metallic-looking structure that resembles a satellite dish or a modern architectural element. The overall composition is dynamic and futuristic.



SAW Components

B3705

Low Loss Filter

915,00 MHz

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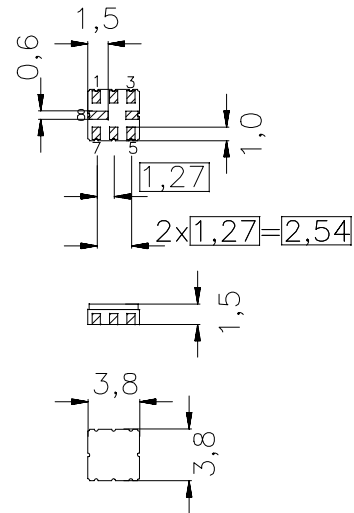
Features

- 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

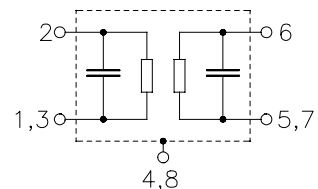
Ceramic package **QCC8B**



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



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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.	
Center frequency	f_c	—	914,70	—	MHz
Maximum insertion attenuation					
913,90 ... 915,50 MHz	$\alpha_{\max}$	—	4,0	6,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
913,90 ... 915,50 MHz		—	1,0	2,0	dB
Relative attenuation (relative to $\alpha_{\max}$)	α_{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
Temperature coefficient of frequency	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.	
Center frequency	f_c	—	914,70	—	MHz
Maximum insertion attenuation					
914,50 ... 916,00 MHz	$\alpha_{\max}$	—	4,0	6,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
914,50 ... 916,00 MHz		—	1,0	2,0	dB
Relative attenuation (relative to $\alpha_{\max}$)	α_{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
Temperature coefficient of frequency	TC_f	—	-30	—	ppm/K



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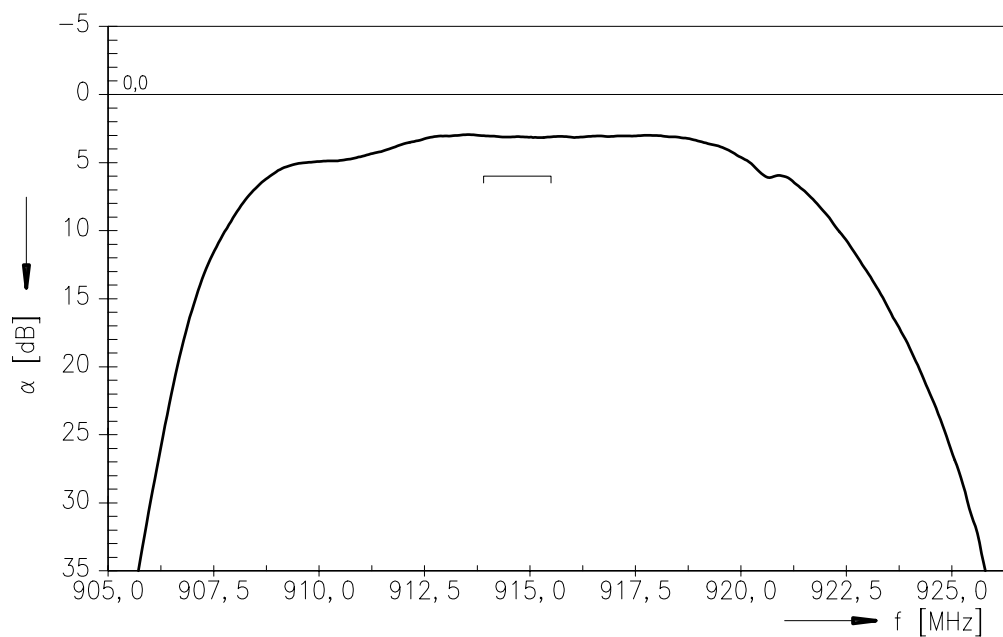
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Low Loss Filter

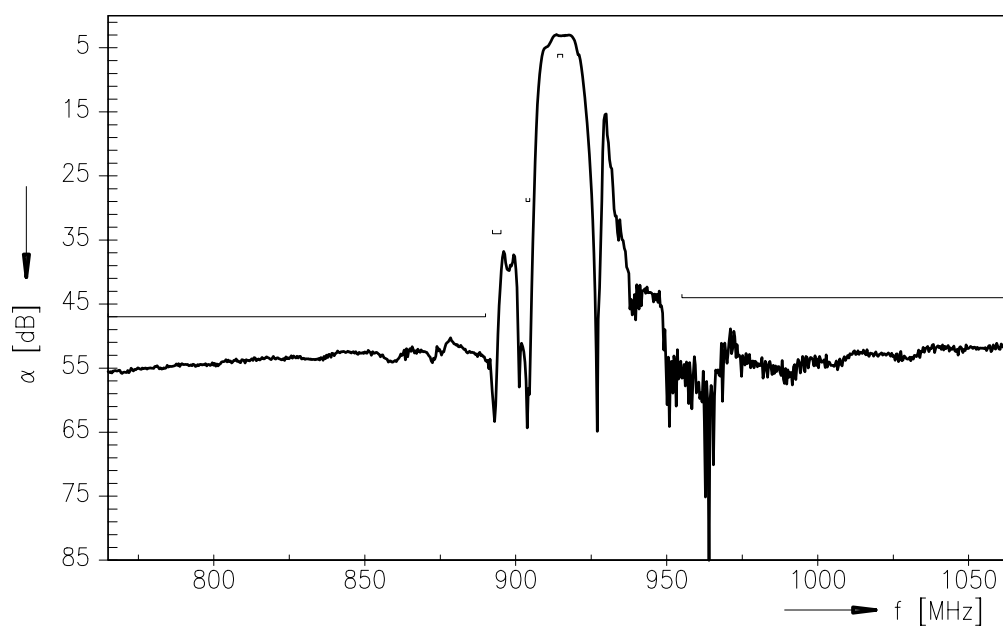
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Normalized frequency response (Spec.1)



Normalized frequency response (Spec. 1) (wideband)





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