



SAW Components

Data Sheet B3705

Data Sheet

EPCOS



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B3705

Low Loss Filter

915,00 MHz

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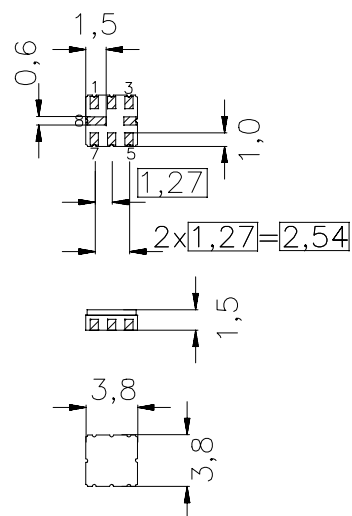
Features

- 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

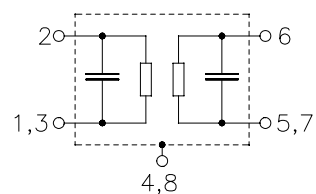
Ceramic package QCC8B



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



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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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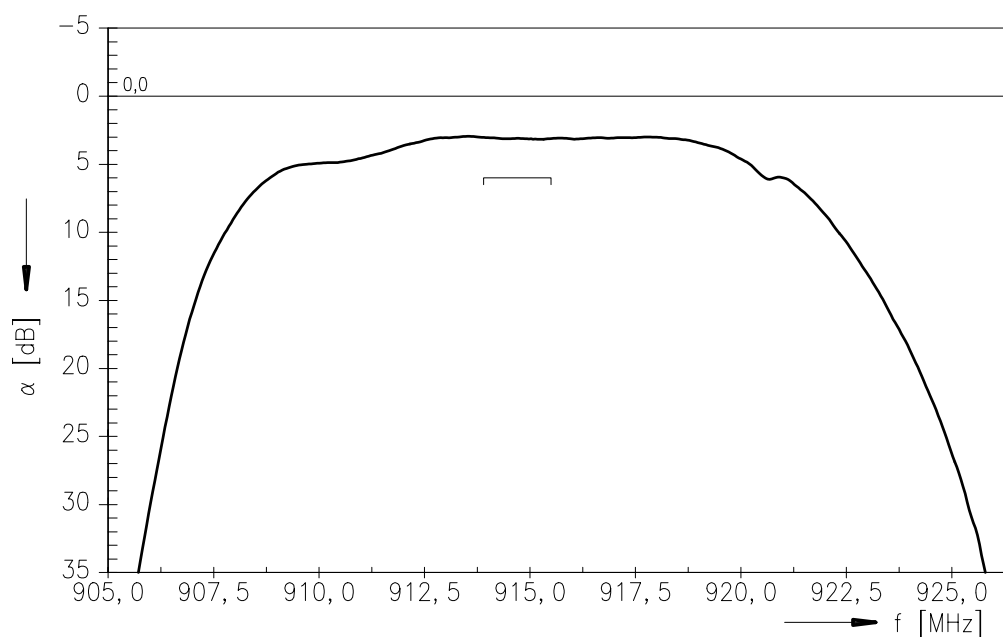
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Low Loss Filter

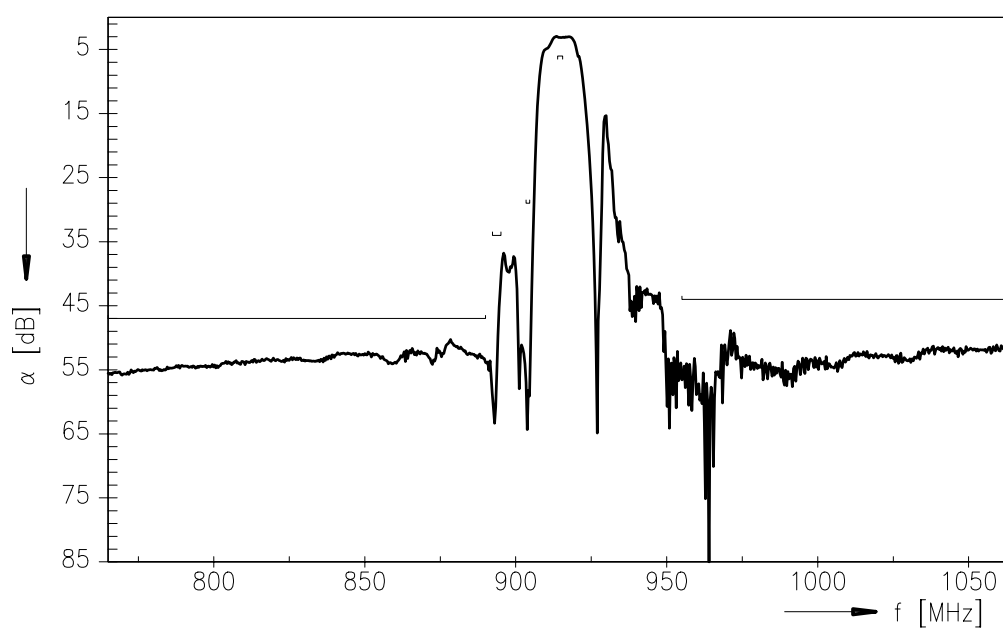
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Normalized frequency response (Spec.1)



Normalized frequency response (Spec. 1) (wideband)





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