EPCOS

SAW Components

Data Sheet B3705

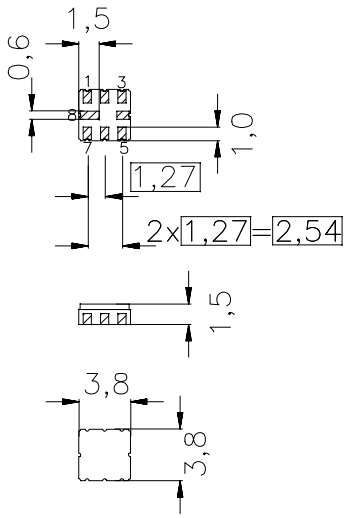
Ceramic package **QCC8B**

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 Ω

Terminals

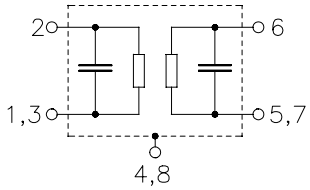
- Ni, gold plated



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 **S**ensitive **D**evice (**ESD**)

Maximum ratings

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

Characteristics (Spec. 1)

Reference temperature: T_A = +5 ... 65 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

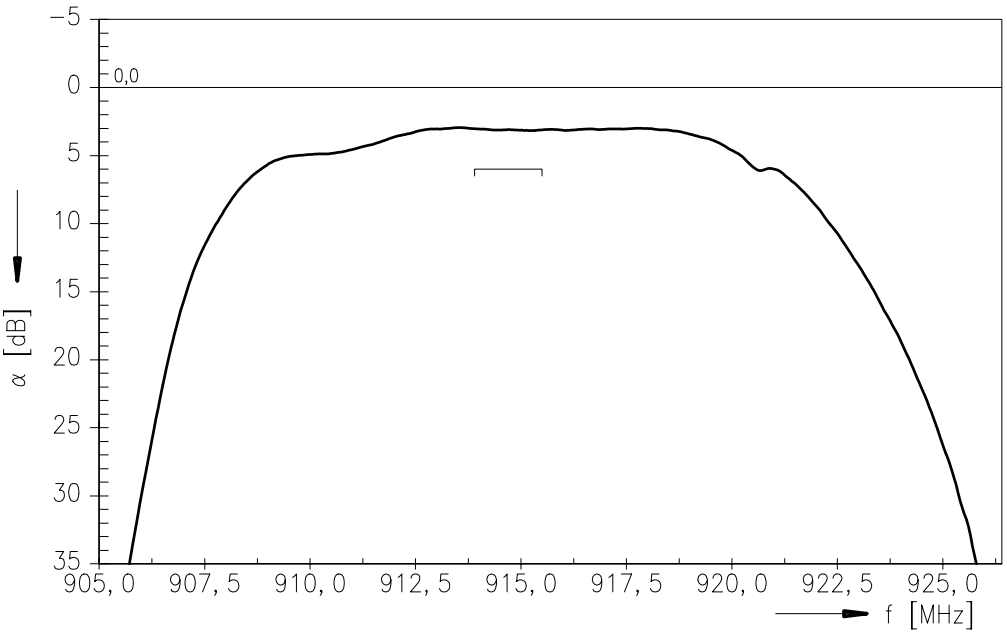
		min.	typ.	max.	
Center frequency	f_c	—	914,70	—	MHz
Maximum insertion attenuation					
913,90 ... 915,50 MHz	α_{max}	—	4,0	6,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
913,90 ... 915,50 MHz		—	1,0	2,0	dB
Relative attenuation (relative to α_{max})	α_{rel}				
10,00 ... 890,00 MHz		43	48	—	dB
892,30 ... 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

Characteristics (Spec. 2)

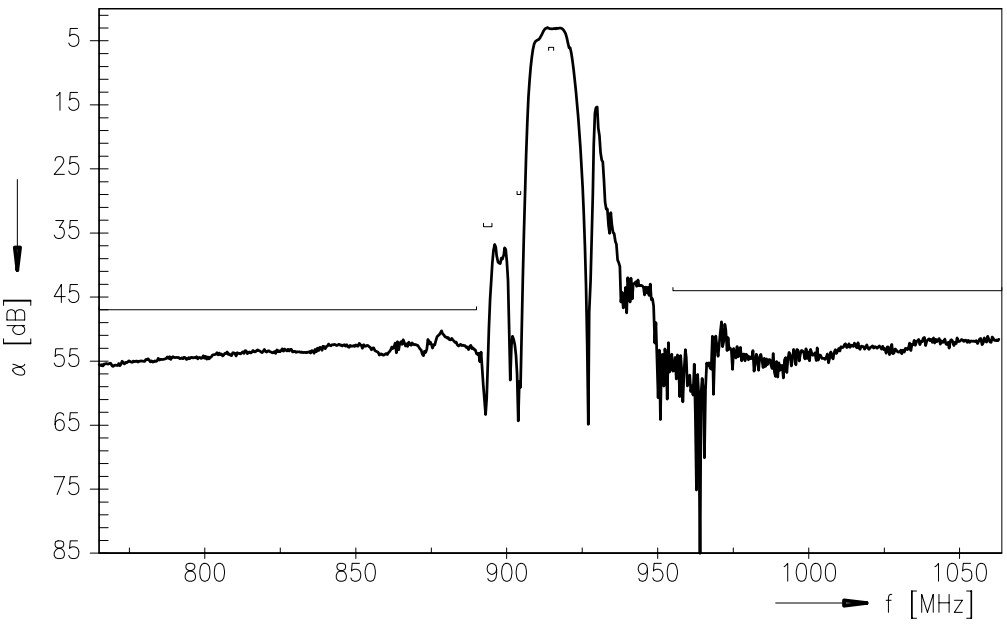
Reference temperature: T_A = -40 ... +85 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Center frequency	f_c	—	914,70	—	MHz
Maximum insertion attenuation					
914,50 ... 916,00 MHz	α_{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 α_{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

Normalized frequency response (Spec.1)



Normalized frequency response (Spec. 1) (wideband)



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