



SAW Components

Data Sheet B4045

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a bright, circular highlight in the center of each, giving them a three-dimensional appearance. They are set against a dark, textured background. In the background, there is a faint, stylized globe and a wavy, metallic-looking surface that resembles a SAW component. The overall effect is high-tech and futuristic.



SAW Components

B4045

Low-Loss Duplexer for Mobile Communication

926,25 / 903,75 MHz

Data Sheet



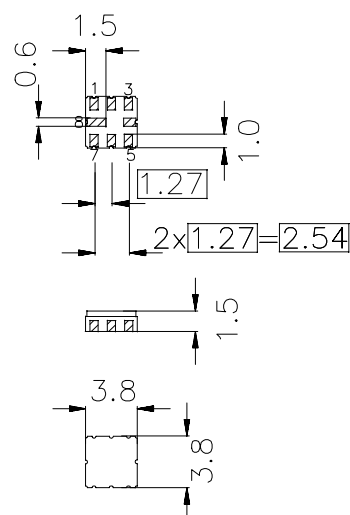
Ceramic package **QCC8B**

Features

- Compact RF duplexer for cordless telephone ISM
- No matching network required for operation at 50 Ω
- Ceramic package for **Surface Mounted Technology (SMT)**

Terminals

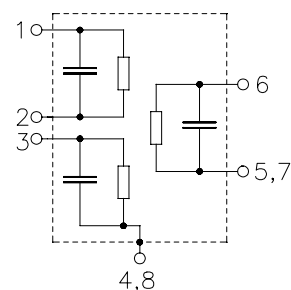
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

6	Ant
1	Port 1
3	Port 2
5, 7	Ant - ground
2	Port 1 - ground
4, 8	Case / Port 2 - ground



Type	Ordering code	Marking and Package according to	Packing according to
B4045	B39931-B4045-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 10/+ 55	$^{\circ}\text{C}$	
Storage temperature range	T_{stg}	- 40/+ 85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	5	V	
Input power	P_{IN}	5	dBm	



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Characteristics channel 1 (Port 1 - Ant)

Operable temperature range $T_A = -10$ to $55\text{ }^{\circ}\text{C}$

Ant term. impedance $Z_{Ant} = 50\text{ }\Omega$

Port 1 term. impedance $Z_{Port\ 1} = 50\text{ }\Omega$

Port 2 term. impedance $Z_{Port\ 2} = 50\text{ }\Omega$

		min.	typ.	max.	
Center frequency	f_c	—	926,25	—	MHz
Maximum insertion attenuation	α_{max}				
924,90 ... 928,15 MHz		—	3,4	4,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
924,90 ... 928,15 MHz		—	0,5	2,0	dB
Absolute attenuation	α				
450,00 ... 850,00 MHz		44	52	—	dB
850,00 ... 884,80 MHz		36	45	—	dB
884,80 ... 910,00 MHz		30	40	—	dB
910,00 ... 916,90 MHz		8	20	—	dB
935,00 ... 946,30 MHz		5	15	—	dB
946,30 ... 949,00 MHz		44	49	—	dB
967,70 ... 1100,00 MHz		48	57	—	dB
1100,00 ... 1350,00 MHz		36	40	—	dB
1350,00 ... 1800,00 MHz		16	20	—	dB



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Characteristics channel 2 (Port 2 - Ant)

Operable temperature range $T_A = -10$ to $55\text{ }^{\circ}\text{C}$

Ant term. impedance $Z_{Ant} = 50\text{ }\Omega$

Port 1 term. impedance $Z_{Port\ 1} = 50\text{ }\Omega$

Port 2 term. impedance $Z_{Port\ 2} = 50\text{ }\Omega$

		min.	typ.	max.	
Center frequency	f_c	—	903,75	—	MHz
Maximum insertion attenuation	α_{max}	—	3,1	4,0	dB
	901,45 ... 905,10 MHz				
Amplitude ripple (p-p)	$\Delta\alpha$	—	0,5	2,0	dB
	901,45 ... 905,10 MHz				
Absolute attenuation	α				
	450,00 ... 850,00 MHz	50	54	—	dB
	850,00 ... 862,30 MHz	46	54	—	dB
	862,30 ... 880,00 MHz	35	44	—	dB
	880,00 ... 890,00 MHz	25	40	—	dB
	890,00 ... 892,00 MHz	10	25	—	dB
	913,15 ... 923,80 MHz	5	15	—	dB
	923,80 ... 927,60 MHz	44	48	—	dB
	927,60 ... 1150,00 MHz	43	48	—	dB
	1150,00 ... 1400,00 MHz	40	44	—	dB
	1400,00 ... 1800,00 MHz	24	28	—	dB



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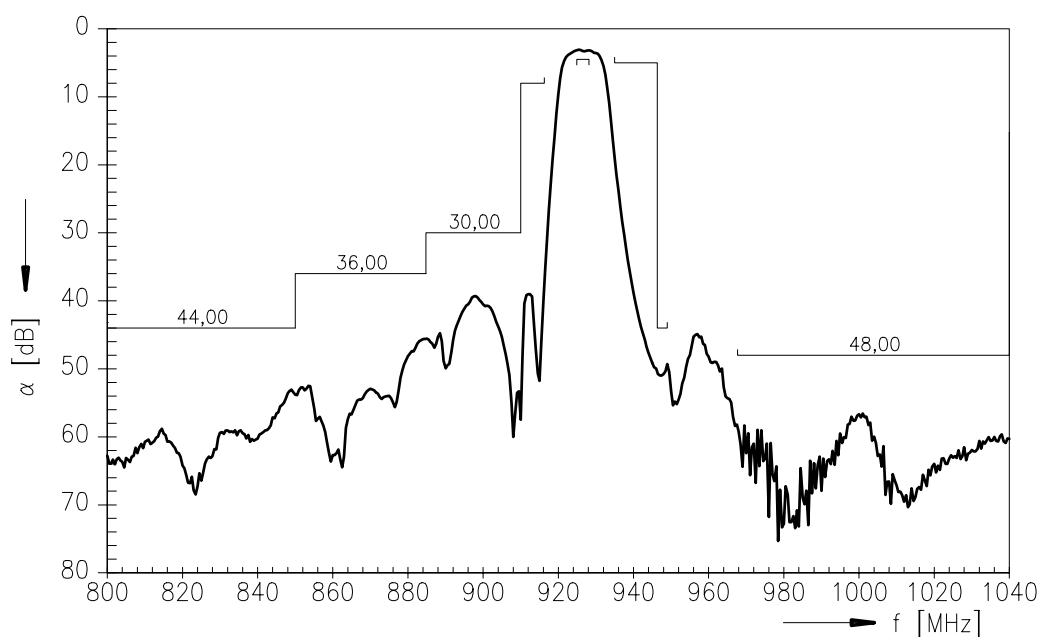
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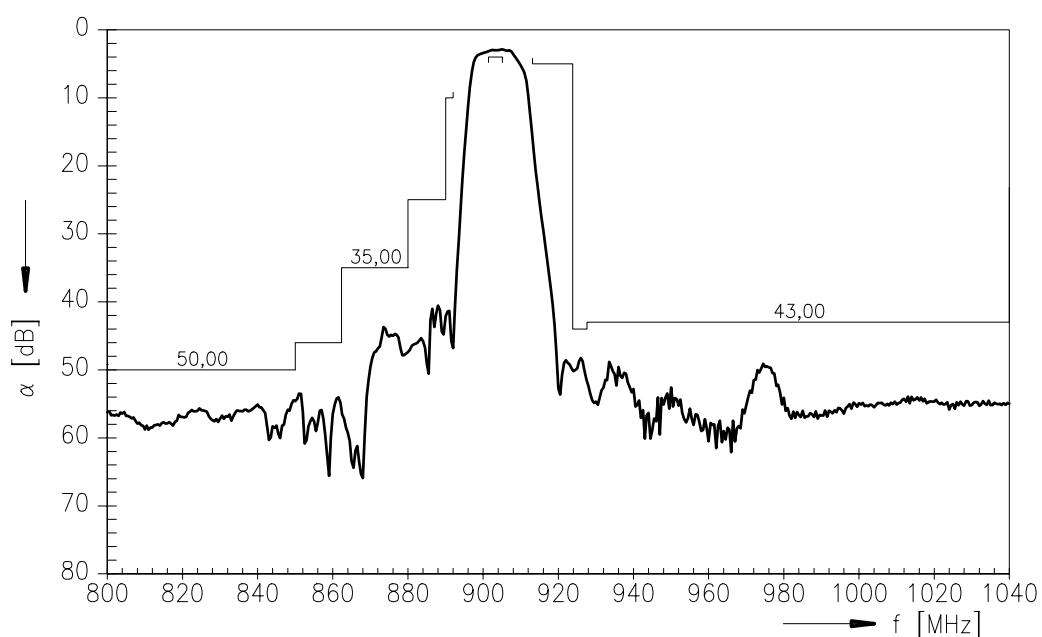
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Frequency response channel 1 :



Frequency response channel 2 :





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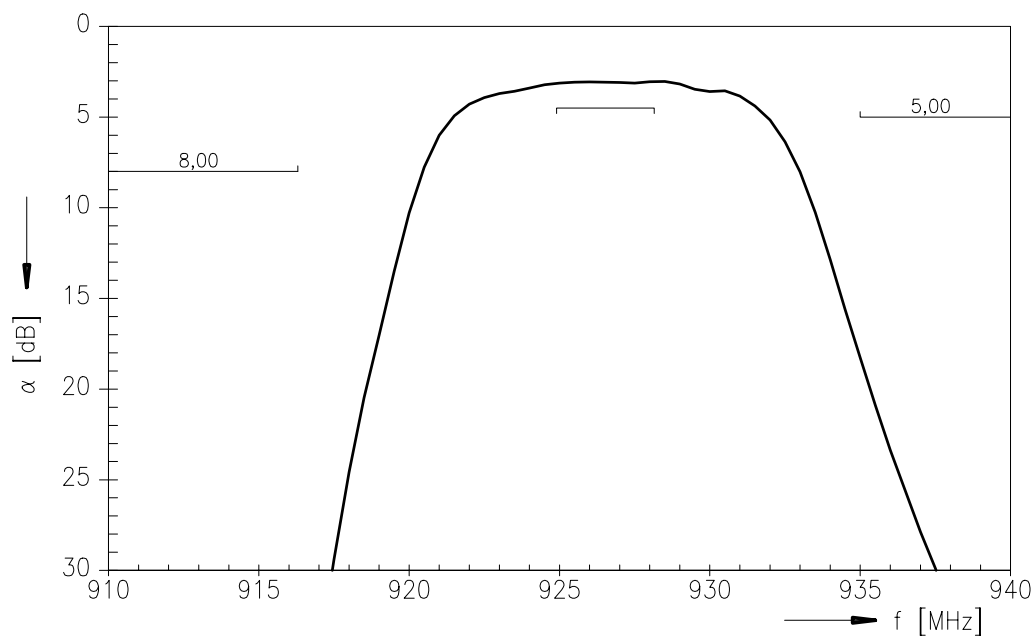
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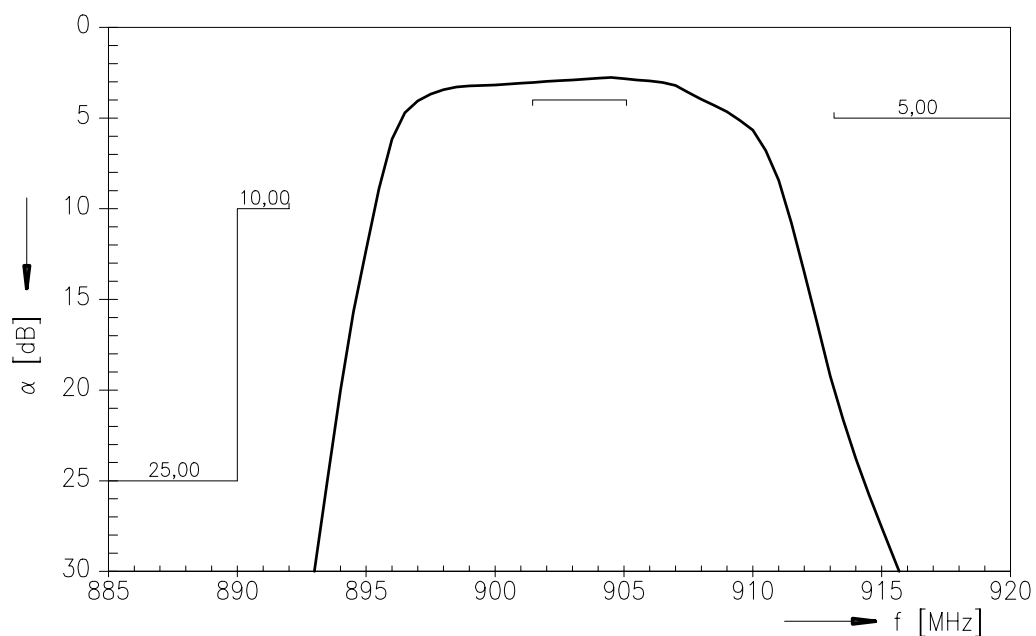
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Frequency response channel 1 : (passband)



Frequency response channel 2 : (passband)





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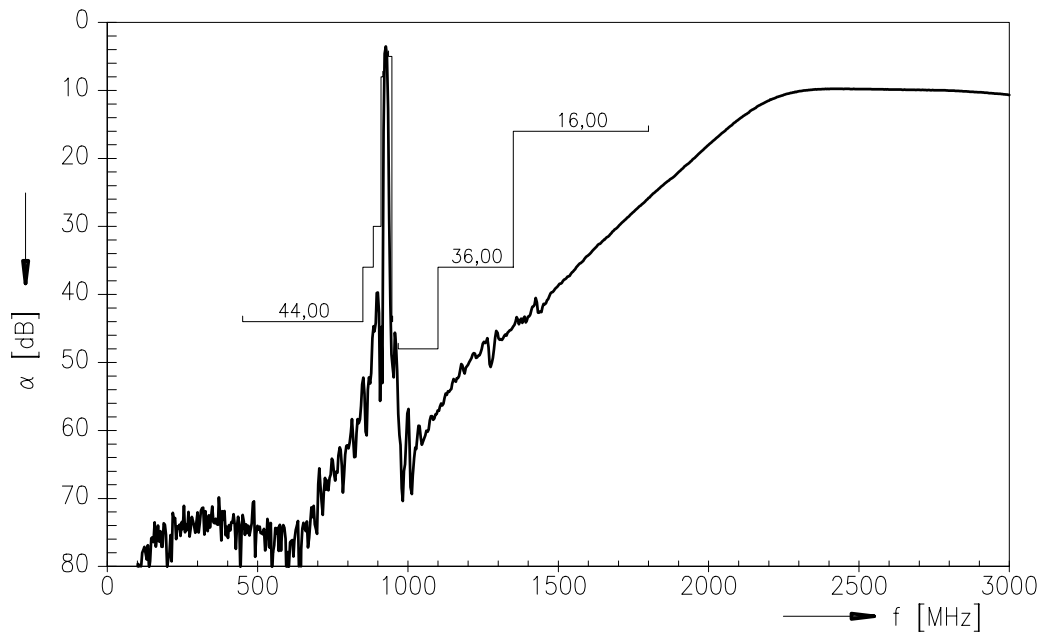
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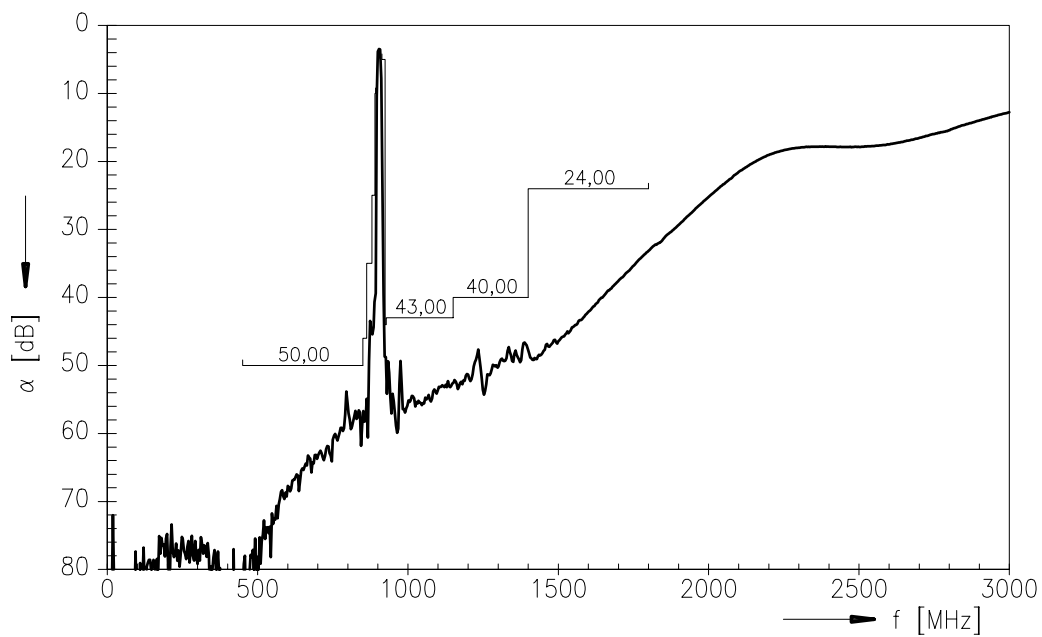
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Frequency response channel 1 : (wideband)

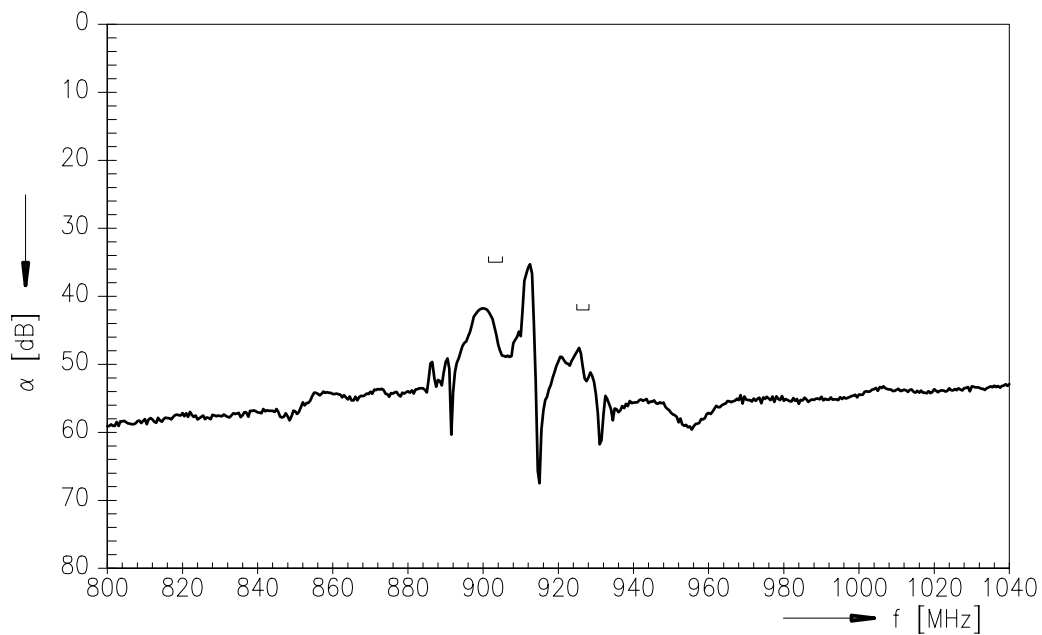


Frequency response channel 2 : (wideband)



**SAW Components****B4045****Low-Loss Duplexer for Mobile Communication****926,25 / 903,75 MHz****Data Sheet****Isolation between channel 1 and channel 2**Operating temperature range $T = -10$ to $+55$ °CAnt term. impedance $Z_{Ant} = 50 \Omega$ Port 1 term. impedance $Z_{Port 1} = 50 \Omega$ Port 2 term. impedance $Z_{Port 2} = 50 \Omega$

		min.	typ.	max.	
Absolute attenuation	α				
	924,90 ... 928,15 MHz	42	48	—	dB
	901,45 ... 905,10 MHz	35	42	—	dB

Isolation between channel 1 and channel 2 :



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