

B4043 926,25 MHz 903,65 MHz

#### **Data Sheet**

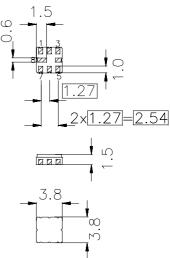
#### **Features**

- Compact RF duplexer for cordless telephone ISM
- No matching network required for operation at 50 O
- Package for Surface Mounted Technology (SMT)

#### **Terminals**

• Ni , gold-plated

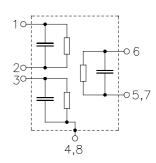
# Ceramic package QCC 8B



Dimensions in mm, approx. weight 0,07 g

#### Pin configuration

Ant
Port 1 (Rx/Tx)
Port 2 (Tx/Rx)
Ground
Ground
Case / Ground



Туре	Ordering code	Marking and Package according to	Packing according to
B4043	B39931-B4043-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

#### **Maximum ratings**

Operable temperature range	Τ	0 /+ 40	°C
Storage temperature range	$T_{stg}$	- 40/ <del>+</del> 85	°C
DC voltage	$V_{\rm DC}$	0	V
Input power	$P_{IN}$	3	dBm

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#### Characteristics channel 1 (Port 1 - Ant)

 $\begin{array}{lll} \text{Operable temperature range} & T & = 0 \text{ to } 40^{\circ}\text{C} \\ \text{Ant term. impedance} & Z_{\text{Ant}} & = 50 \ \Omega \\ \text{Port 1 term. impedance} & Z_{\text{Port 1}} & = 50 \ \Omega \\ \text{Port 2 term. impedance} & Z_{\text{Port 2}} & = 50 \ \Omega \\ \end{array}$ 

		min.	typ.	max.	
Center frequency	f <sub>c</sub>	_	926,25	_	MHz
Maximum insertion attenuation	$\alpha_{max}$				
924,75 927,75 MHz			2,0	3,0	dB
Amplitude ripple (p-p)	$\Delta \alpha$				
924,75 927,75 MHz		_	0,3	1,5	dB
Absolute attenuation	α				
50,00 860,00 MHz		35	44	_	dB
860,00 890,00 MHz		25	33	_	dB
890,00 906,00 MHz		23	27	_	dB
950,00 1000,00 MHz		22	26	_	dB
1000,00 2700,00 MHz		30	35	_	dB
2700,004000,00 MHz		5	9	_	dB

## Characteristics channel 2 (Port 2 - Ant)

 $\begin{array}{lll} \text{Operable temperature range} & T & = 0 \text{ to } 40^{\circ}\text{C} \\ \text{Ant term. impedance} & Z_{\text{Ant}} & = 50 \ \Omega \\ \text{Port 1 term. impedance} & Z_{\text{Port 1}} & = 50 \ \Omega \\ \text{Port 2 term. impedance} & Z_{\text{Port 2}} & = 50 \ \Omega \\ \end{array}$ 

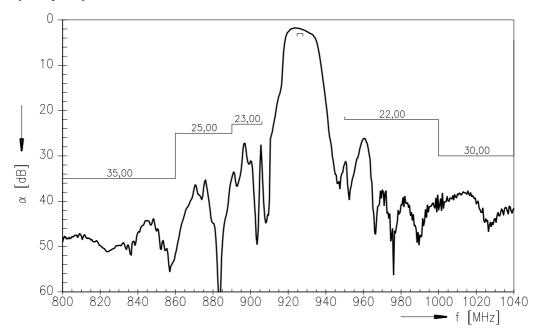
		min.	typ.	max.	
Center frequency	$f_{\rm C}$	_	903,65	_	MHz
Maximum insertion attenuation	$\alpha_{max}$				
902,15 905,15 MHz		_	2,1	3,0	dB
902,15 905,15 MHz		_	0,3	1,5	dB
Absolute attenuation	α				
50,00 830,00 MHz		33	37	_	dB
830,00 885,00 MHz		18	21	_	dB
923,00 928,00 MHz		26	33	_	dB
960,001350,00 MHz		26	34	_	dB
1350,00 1450,00 MHz		45	52	_	dB
1450,00 3000,00 MHz		27	30	_	dB
3000,00 4000,00 MHz		20	25	_	dB



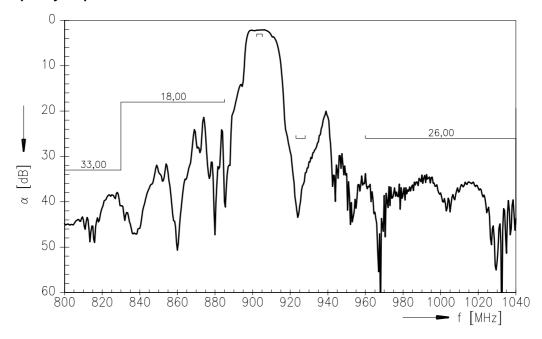
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**Data Sheet** 

#### Frequency response channel 1:



#### Frequency response channel 2:

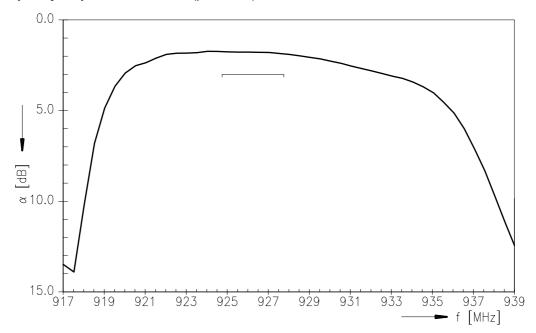




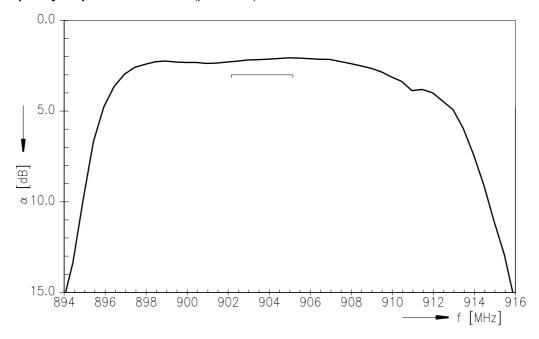
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**Data Sheet** 

Frequency response channel 1 : (passband)



#### Frequency response channel 2: (passband)

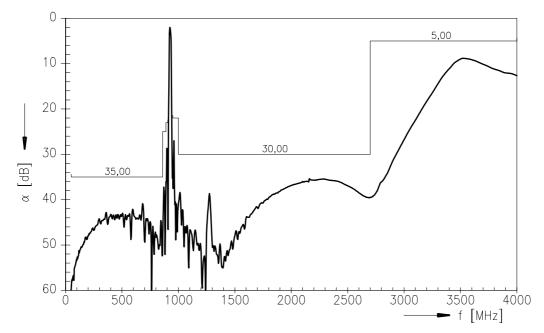




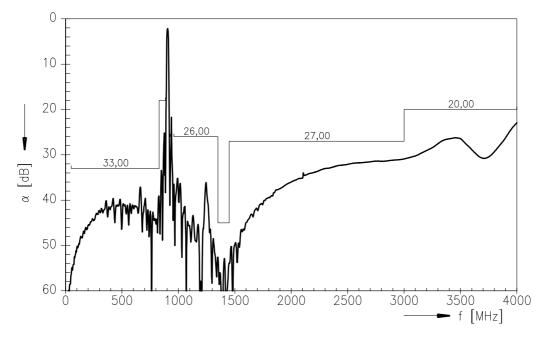
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**Data Sheet** 

Frequency response channel 1: (wideband)



### Frequency response channel 2: (wideband)





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# **Data Sheet**

#### Isolation between channel 1 and channel 2

 $\begin{array}{lll} \text{Operating temperature range} & T & = & 0 \text{ to } +40 \text{ °C} \\ \text{Ant term. impedance} & Z_{\text{Ant}} & = & 50 \Omega \\ \text{Port 1 term. impedance} & Z_{\text{Port 1}} = & 50 \Omega \\ \text{Port 2 term. impedance} & Z_{\text{Port 2}} = & 50 \Omega \end{array}$ 

		min.	typ.	max.	
Absolute attenuation	α				
Rx: 924,75 927,75 MHz		27	33	_	dB
Tx: 902,15 905,15 MHz		25	29	_	dB

#### Isolation between channel 1 and channel 2:

