



**SAW Components**  
**Low-Loss Duplexer for Mobile Communication**

**B4040**  
**926,25 MHz**  
**903,75 MHz**

**Data Sheet**

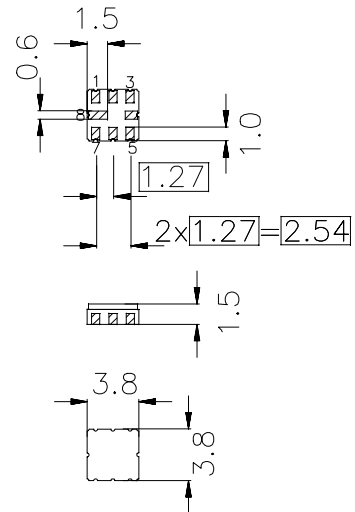
**Features**

- 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

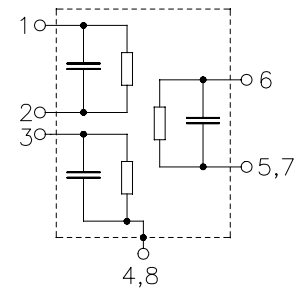
Ceramic package **QCC8B**



Dimensions in mm, approx. weight 0,07 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
B4040	B39931-B4040-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

**Maximum ratings**

Operable temperature range	$T$	0 /+ 55	°C
Storage temperature range	$T_{stg}$	- 40/+ 85	°C
DC voltage	$V_{DC}$	0	V
Input power	$P_{IN}$	5	dBm



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

Operable temperature range  $T_A = 0$  to  $55\text{ }^\circ\text{C}$   
 Ant 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.	
<b>Center frequency</b>	$f_c$	—	926,25	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{max}$	—	3,5	4,5	dB
924,90 ... 928,15 MHz					
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	—	0,5	2,0	dB
924,90 ... 928,15 MHz					
<b>Absolute attenuation</b>	$\alpha$				dB
450,00 ... 850,00 MHz		48	53	—	
850,00 ... 884,80 MHz		41	45	—	
884,80 ... 910,00 MHz		34	36	—	
910,00 ... 916,90 MHz		8	20	—	
935,00 ... 946,30 MHz		5	20	—	
946,30 ... 949,00 MHz		48	53	—	
967,70 ... 980,00 MHz		48	55	—	
980,00 ... 1350,00 MHz		40	44	—	
1350,00 ... 1800,00 MHz		21	26	—	



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**Characteristics channel 2 (Port 2 - Ant)**

Operable temperature range  $T_A = 0$  to  $55\text{ }^\circ\text{C}$   
 Ant 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.	
<b>Center frequency</b>	$f_c$	—	903,75	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{max}$	—	2,8	4,0	dB
901,45 ... 905,10 MHz					
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	—	0,4	2,0	dB
901,45 ... 905,10 MHz					
<b>Absolute attenuation</b>	$\alpha$				dB
450,00 ... 859,60 MHz		49	54	—	
859,60 ... 862,30 MHz		47	51	—	
862,30 ... 883,70 MHz		28	36	—	
883,70 ... 894,40 MHz		5	9	—	
913,15 ... 923,80 MHz		5	11	—	
923,80 ... 927,60 MHz		38	49	—	
945,20 ... 970,00 MHz		22	33	—	
970,00 ... 1050,00 MHz		48	54	—	
1050,00 ... 1350,00 MHz		40	49	—	
1350,00 ... 1800,00 MHz		25	39	—	

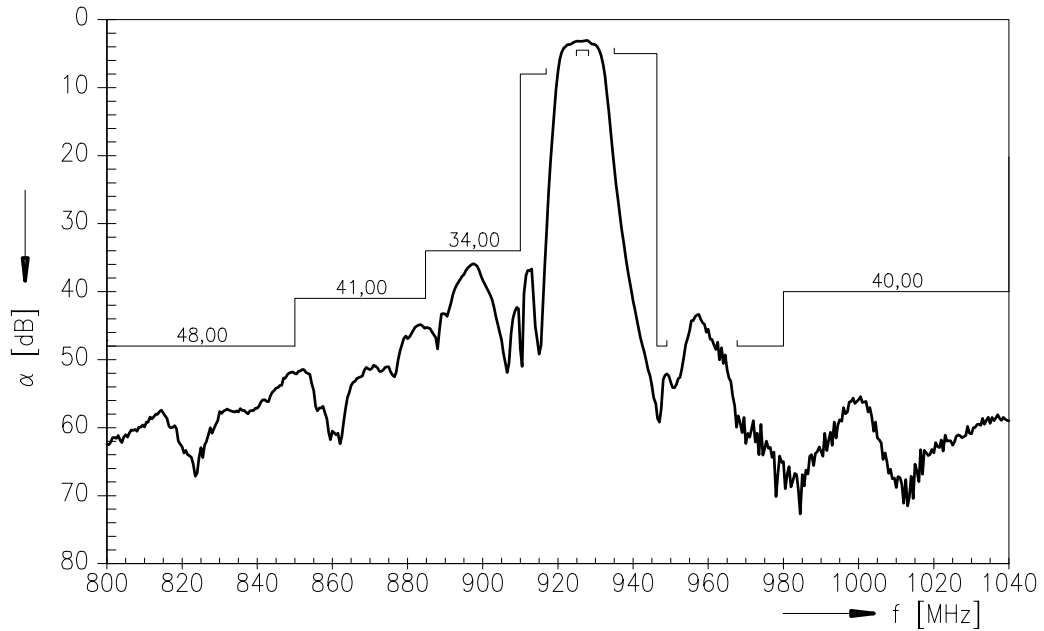


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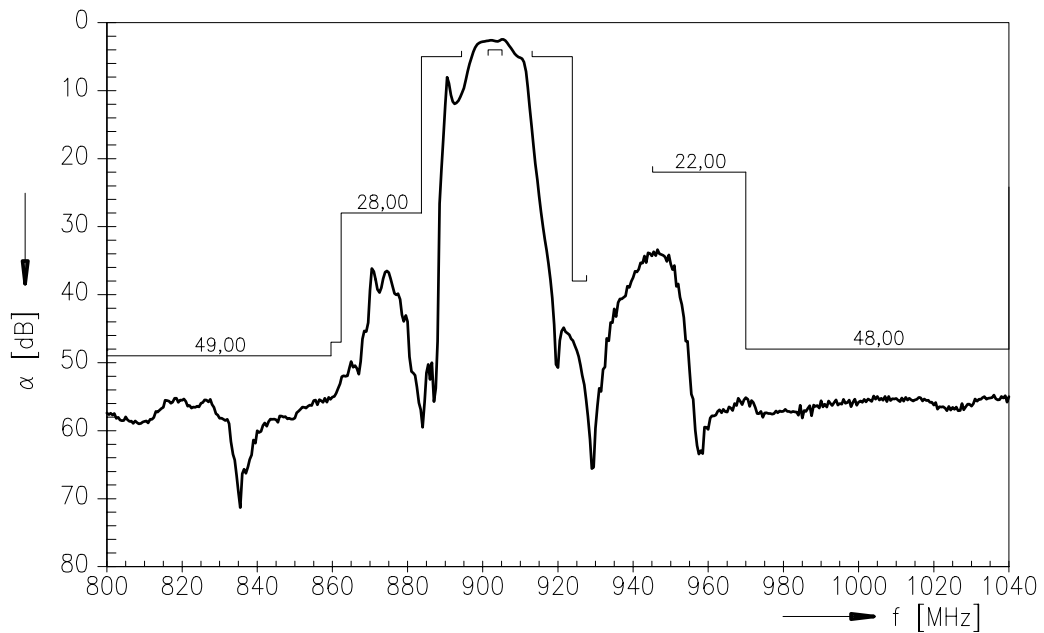
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**Data Sheet**

**Frequency response channel 1 :**



**Frequency response channel 2 :**



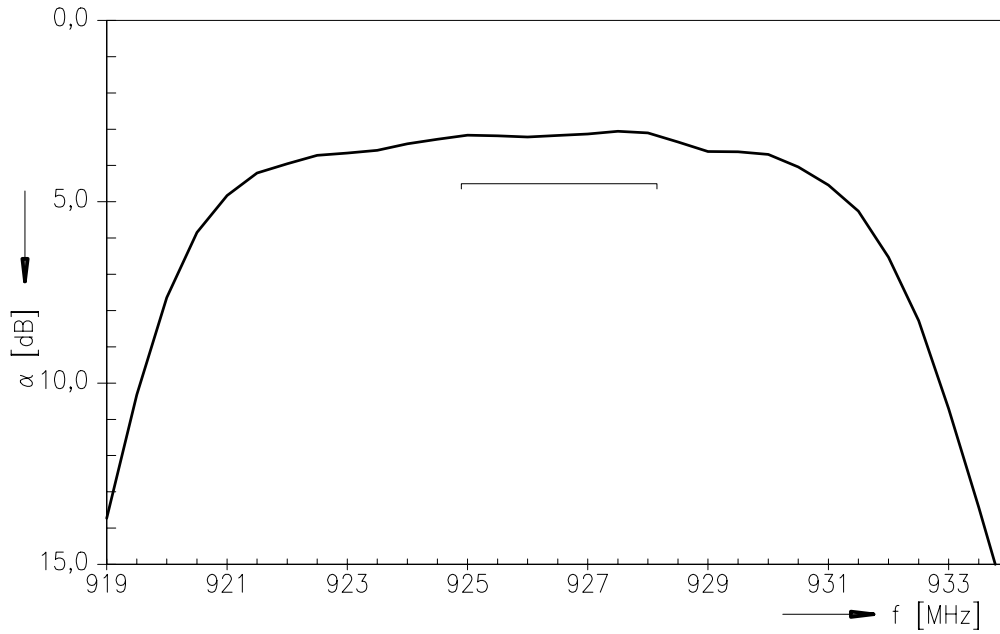


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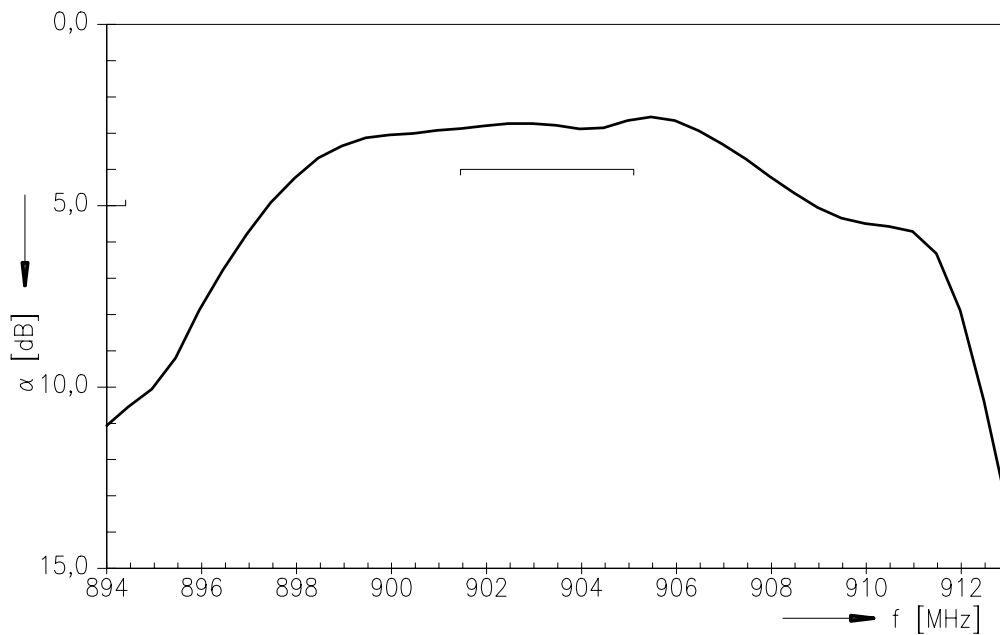
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**Frequency response channel 1 : (passband)**



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



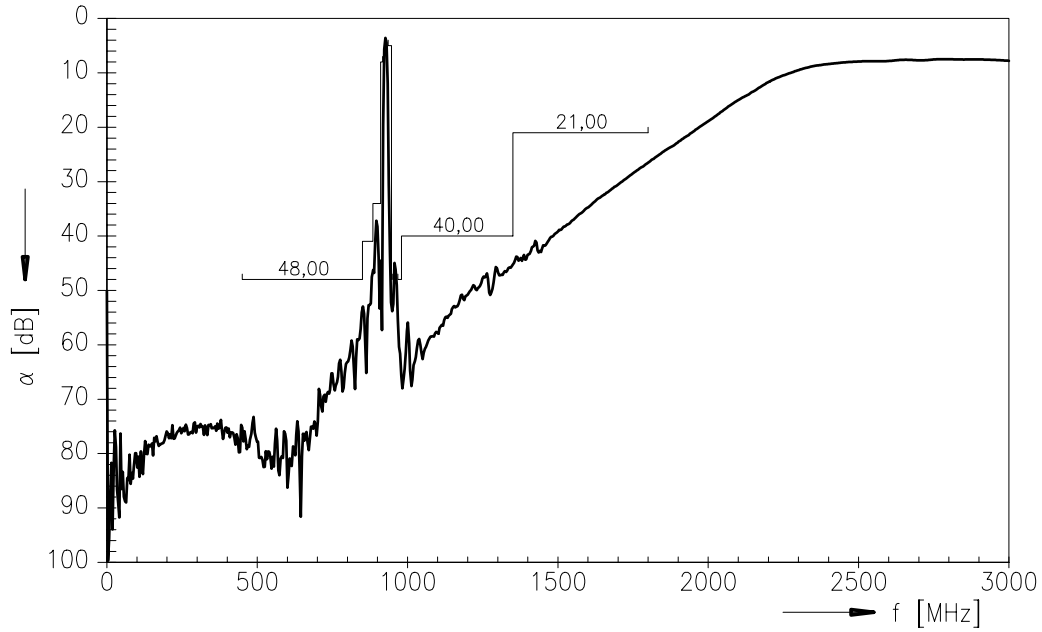


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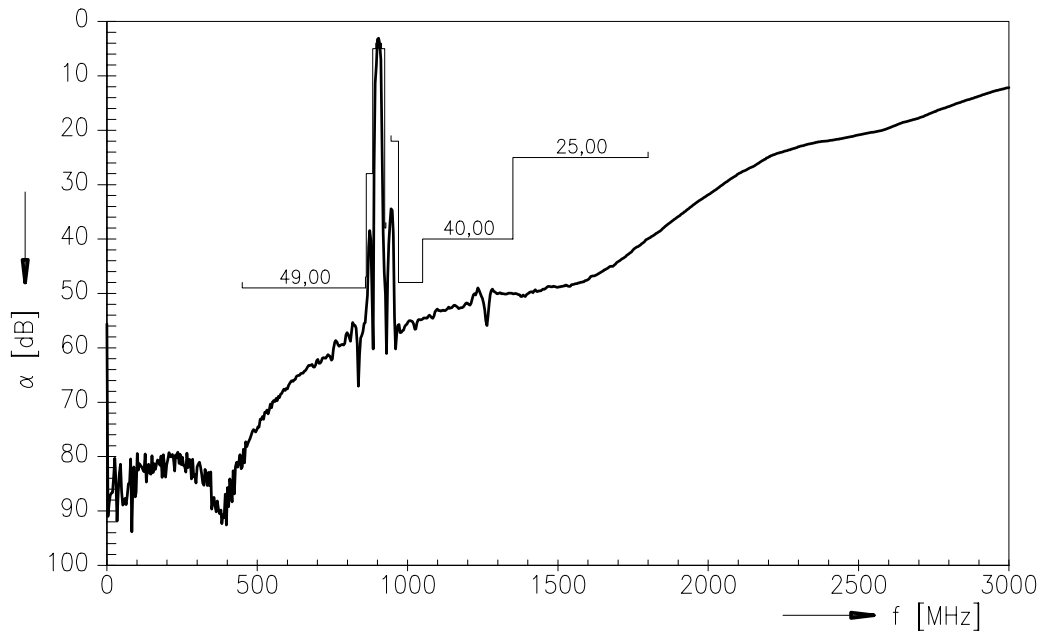
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## Data Sheet

### Frequency response channel 1 : (wideband)



### Frequency response channel 1 : (wideband)





Siemens Matsushita Components

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**Isolation between channel 1 and channel 2**

Operating temperature range  $T = 0$  to  $+55$  °C  
 Ant 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.	
<b>Absolute attenuation</b>	$\alpha$				
	924,90 ... 928,15 MHz	37	47	—	dB
	901,45 ... 905,10 MHz	37	43	—	dB

**Isolation between channel 1 and channel 2 :**

