



# SAW Components

Data Sheet B4063

Data Sheet





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Low-Loss Duplexer for Mobile Communication

926,25 / 903,75 MHz

Data Sheet



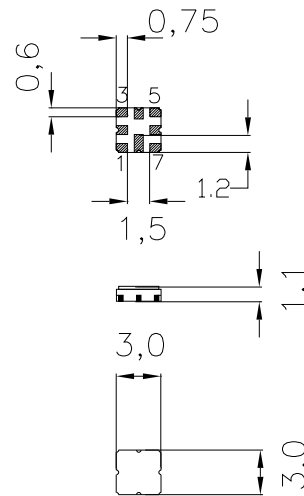
Ceramic package QCC8D

**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**

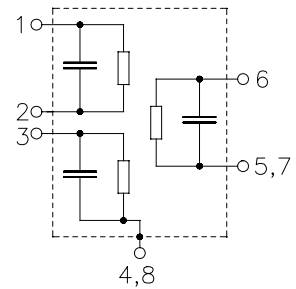
- Ni , gold-plated



Dimensions in mm, approx. weight 0,037 g

**Pin configuration**

- |      |                    |
|------|--------------------|
| 6    | Ant                |
| 1    | Tx                 |
| 3    | Rx                 |
| 5, 7 | Ant - ground       |
| 2    | Tx - ground        |
| 4,8  | Case / Rx - ground |



Type	Ordering code	Marking and Package according to	Packing according to
B4063	B39931-B4063-U810	C61157-A7-A72-X-27	F61074-V8101-Z000

Electrostatic Sensitive Device (ESD)

**Maximum ratings**

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



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**Characteristics Tx - Ant**

Operable temperature range  $T_A = -10$  to  $55$  °C  
 Ant term. impedance  $Z_{Ant} = 50$  Ω  
 Port 1 term. impedance  $Z_{Port 1} = 50$  Ω  
 Port 2 term. impedance  $Z_{Port 2} = 50$  Ω

		min.	typ.	max.	
<b>Center frequency</b>	$f_c$	—	926,25	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{max}$	—	3,0	3,6	dB
924,40 ... 928,10 MHz					
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	—	0,4	1,5	dB
924,40 ... 928,10 MHz					
<b>Absolute attenuation</b>	$\alpha$				dB
450,00 ... 906,20 MHz		30	34	—	
946,30 ... 970,00 MHz		25	31	—	
970,00 ... 3500,00 MHz		30	39	—	



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**Characteristics Rx - Ant**

Operable temperature range  $T_A = -10$  to  $55$  °C  
 Ant term. impedance  $Z_{Ant} = 50$  Ω  
 Port 1 term. impedance  $Z_{Port 1} = 50$  Ω  
 Port 2 term. impedance  $Z_{Port 2} = 50$  Ω

		min.	typ.	max.	
<b>Center frequency</b>	$f_c$	—	903,75	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{max}$	—	3,1	4,0	dB
902,40 ... 905,10 MHz					
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	—	0,2	1,5	dB
902,40 ... 905,10 MHz					
<b>Absolute attenuation</b>	$\alpha$				dB
450,00 ... 860,00 MHz		40	52	—	
860,00 ... 881,00 MHz		35	42	—	
881,00 ... 883,70 MHz		36	45	—	
883,70 ... 894,00 MHz		10	30	—	
913,10 ... 923,80 MHz		5	18	—	
923,80 ... 926,50 MHz		40	45	—	
945,20 ... 1600,00 MHz		42	48	—	
1600,00 ... 2000,00 MHz		30	35	—	



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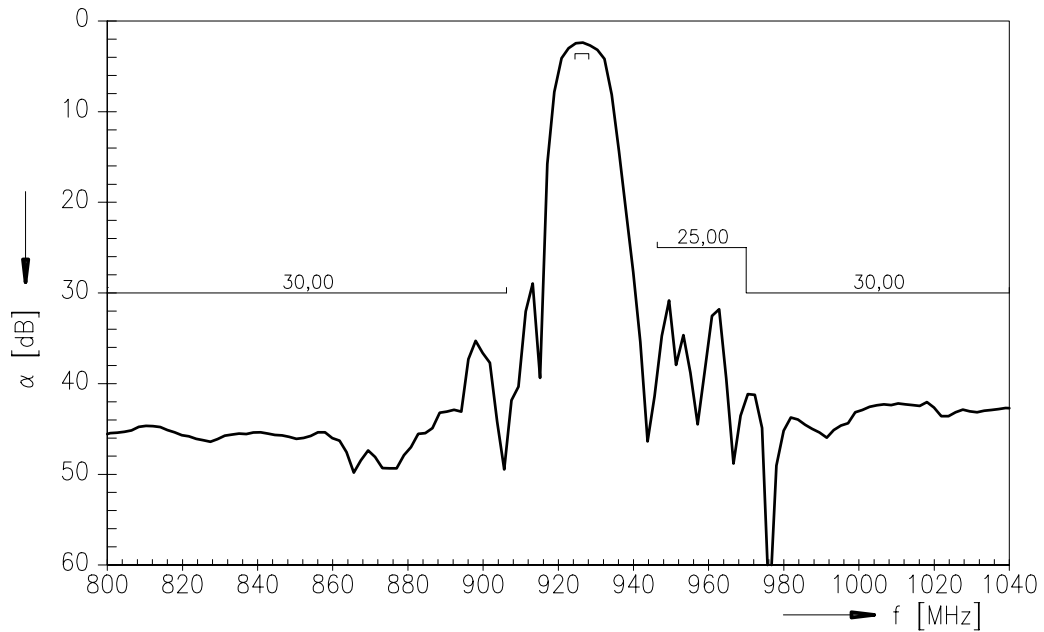
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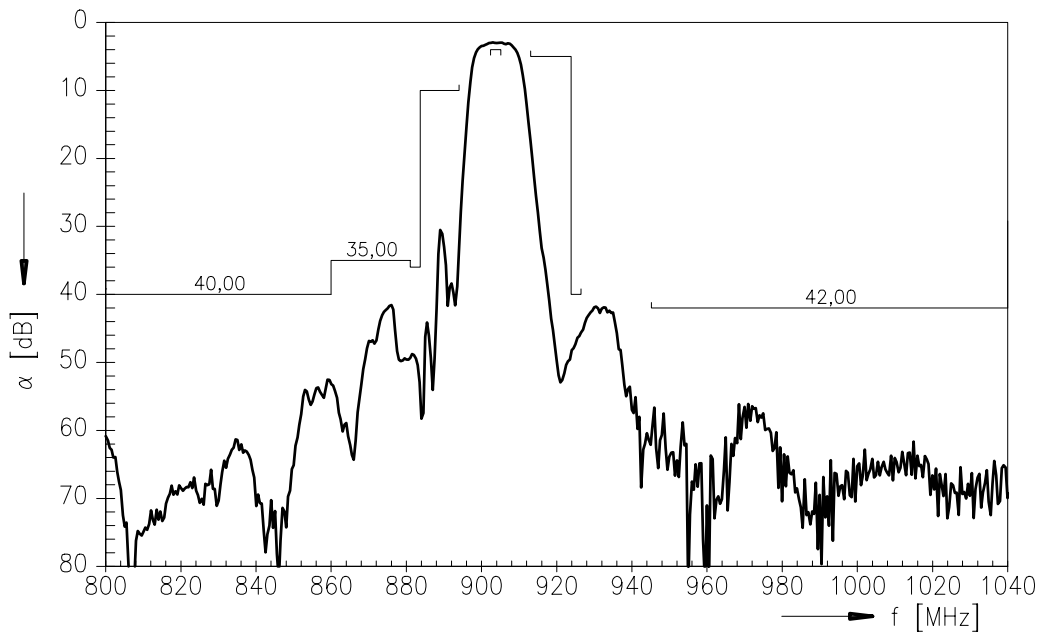
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Frequency response Tx :



Frequency response Rx :





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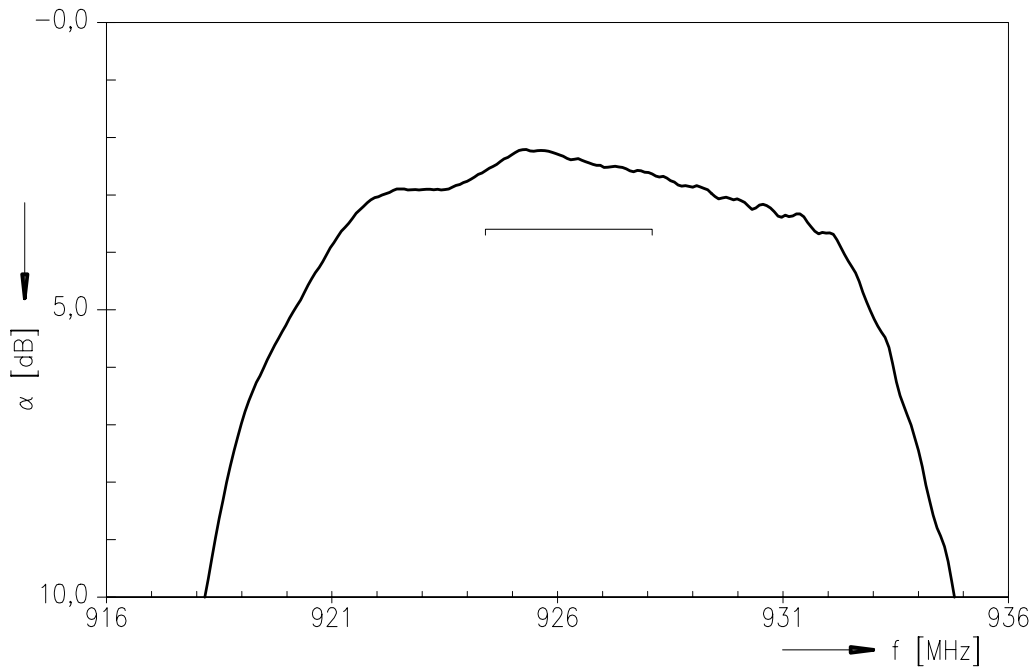
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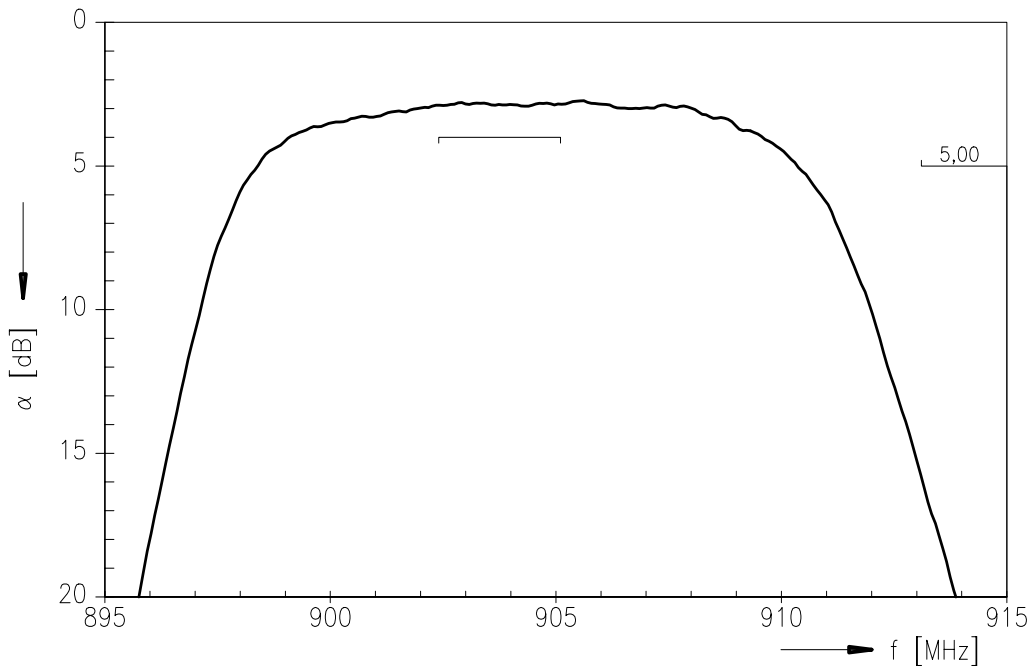
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Frequency response Tx : (passband)



Frequency response Rx : (passband)





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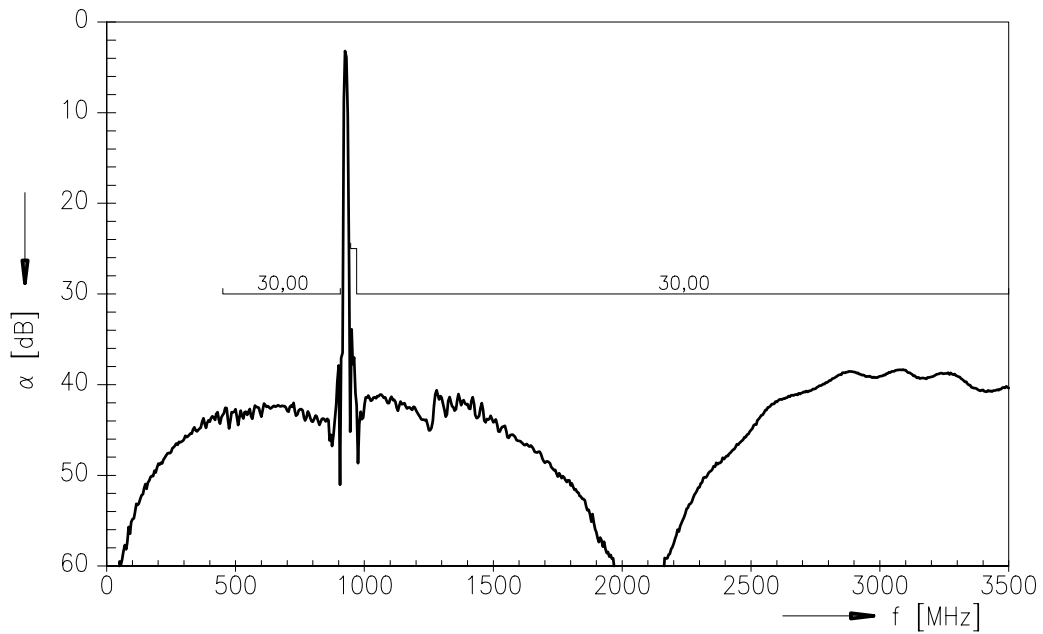
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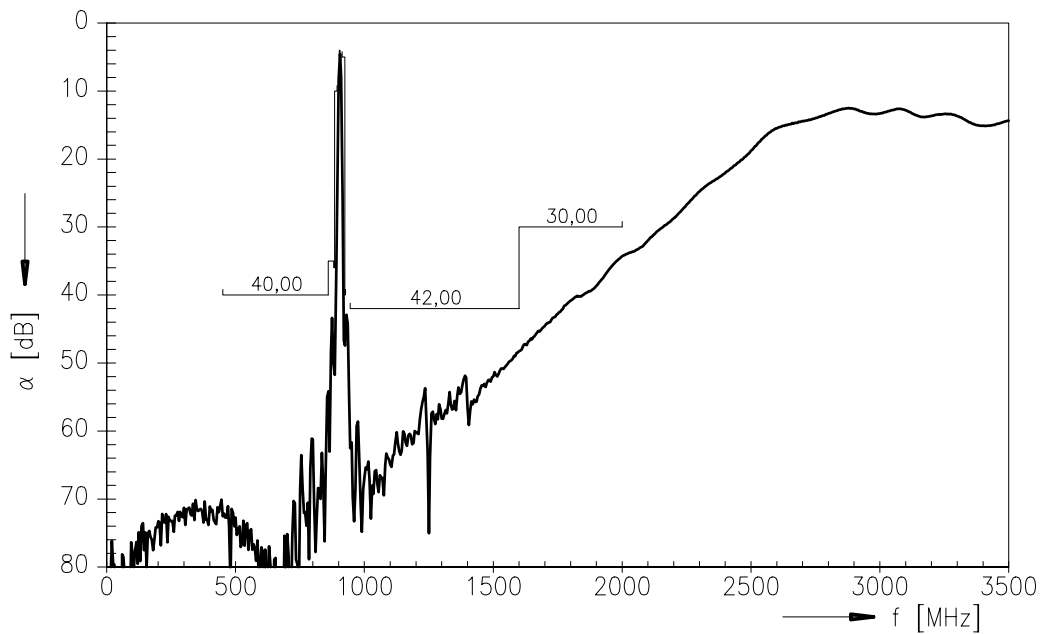
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Frequency response Tx : (wideband)



Frequency response Rx : (wideband)





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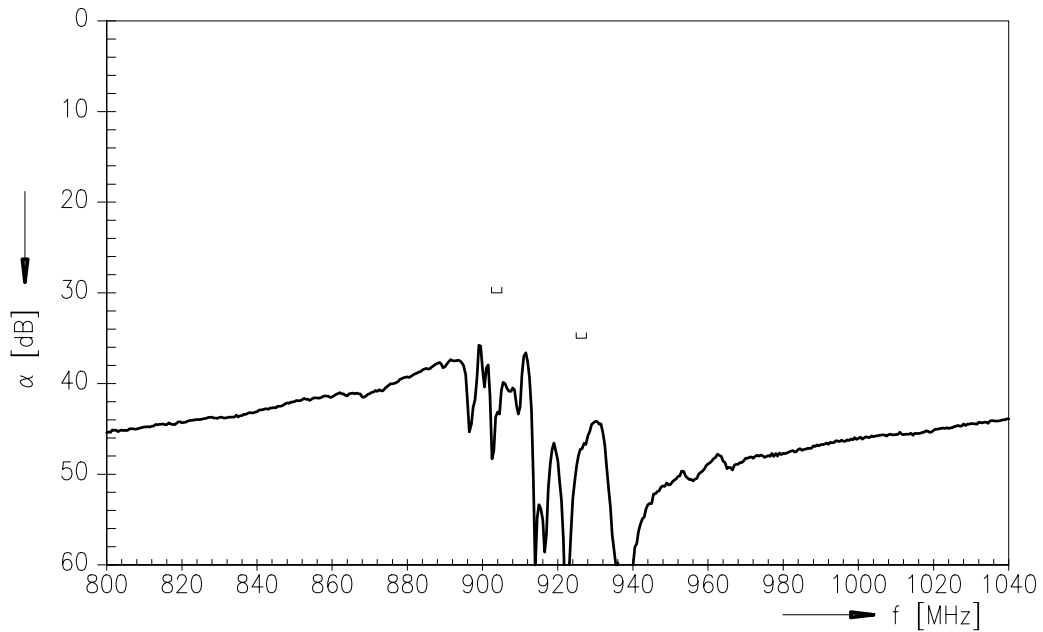


**Isolation between Tx and Rx**

Operating temperature range  $T = -10$  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>	$\alpha$				
	924,40 ... 928,10 MHz	35	44	—	dB
	902,40 ... 905,10 MHz	30	38	—	dB

**Isolation between Tx and Rx :**







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