



SAW Components

Data Sheet B4063





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Low-Loss Duplexer for Mobile Communication

926,25 / 903,75 MHz

Data Sheet



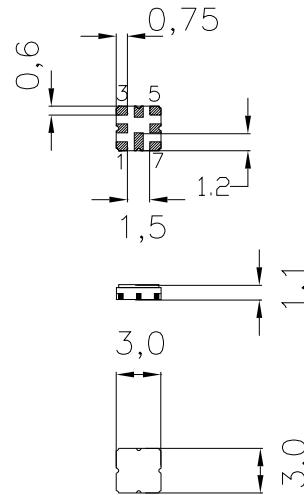
Ceramic package QCC8D

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

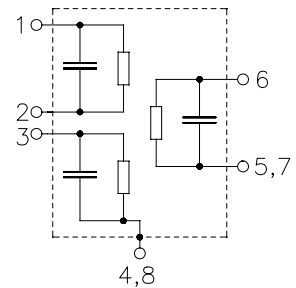
- Ni , gold-plated



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



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



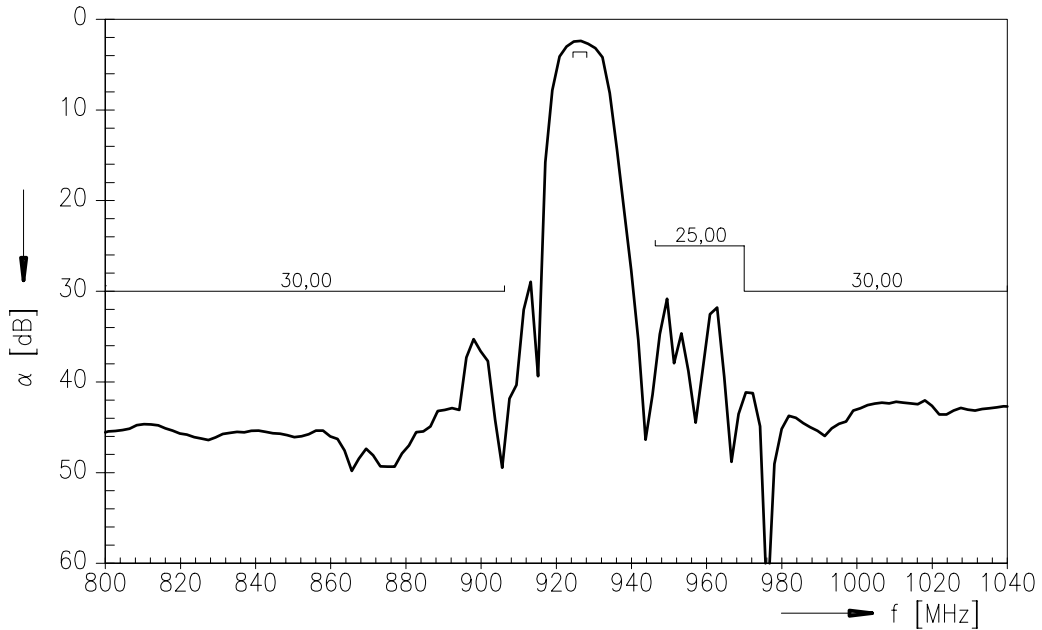
Characteristics Rx - Ant

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

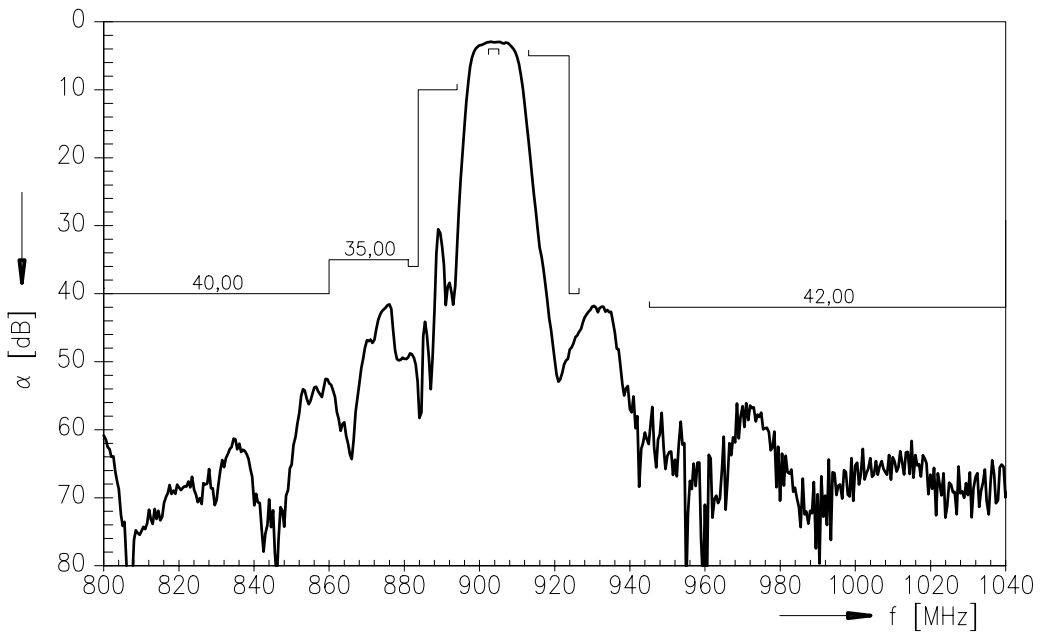
		min.	typ.	max.	
Center frequency	f_c	—	903,75	—	MHz
Maximum insertion attenuation	α_{max}	—	3,1	4,0	dB
902,40 ... 905,10 MHz					
Amplitude ripple (p-p)	$\Delta\alpha$	—	0,2	1,5	dB
902,40 ... 905,10 MHz					
Absolute attenuation	α				dB
450,00 ... 860,00 MHz		40	52	—	
860,00 ... 881,00 MHz		35	42	—	
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	—	



Frequency response Tx :

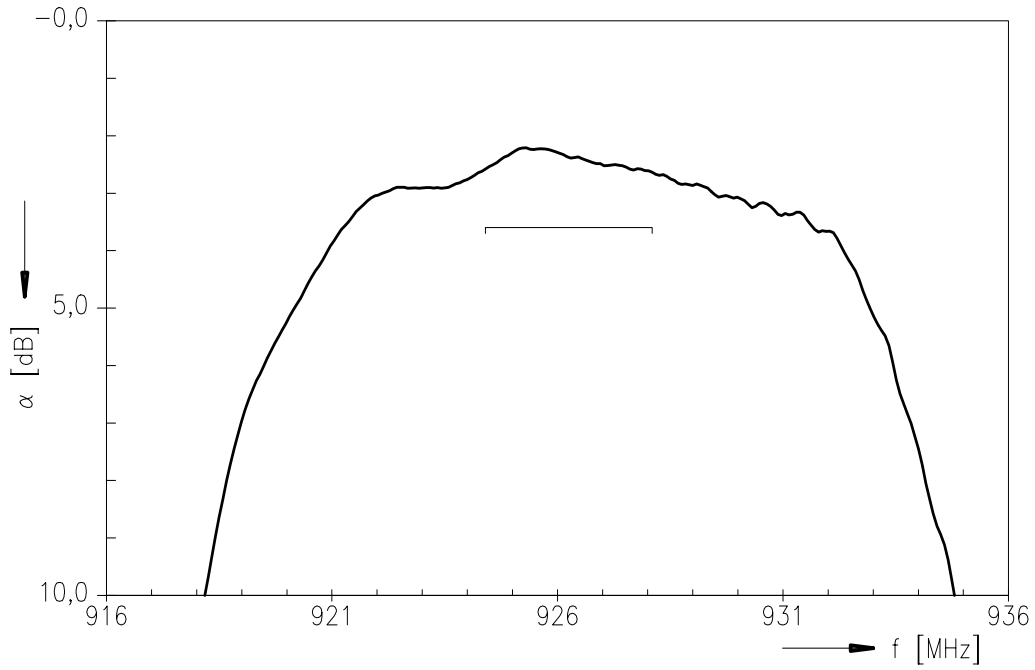


Frequency response Rx :

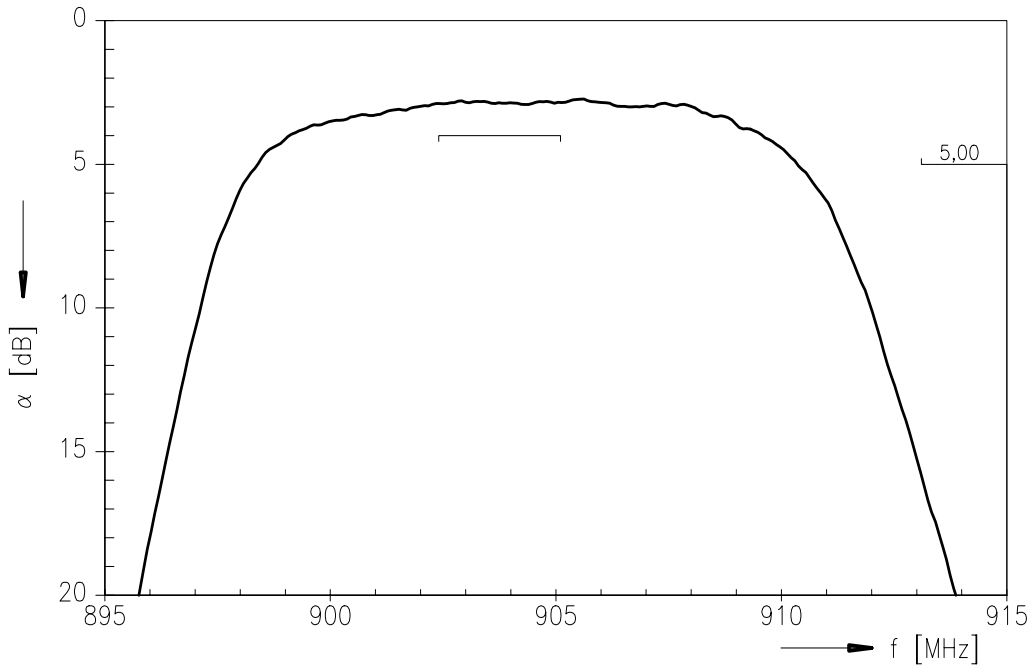




Frequency response Tx : (passband)

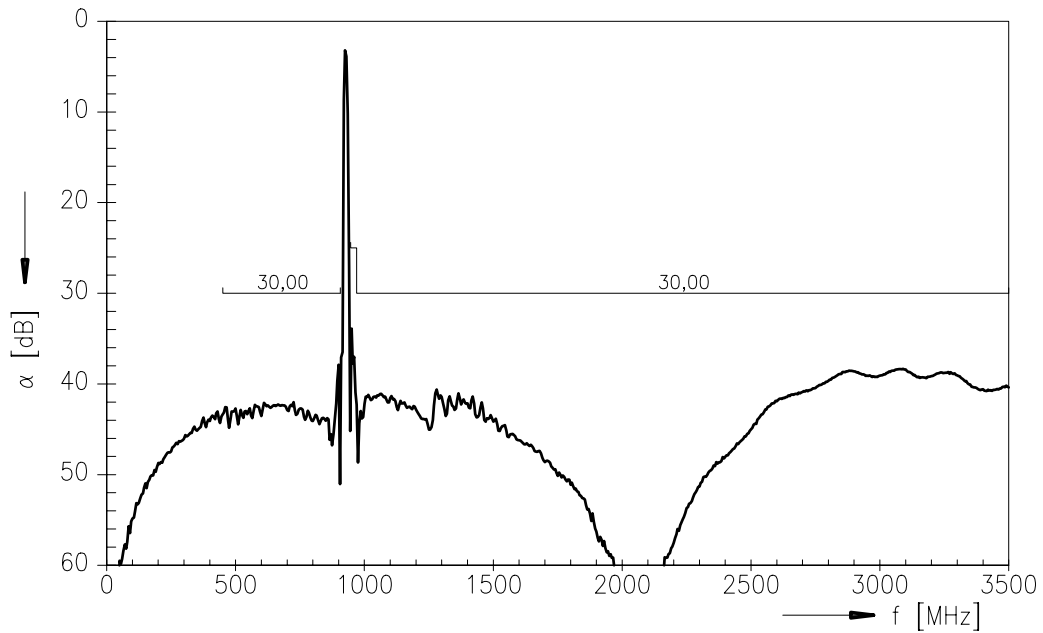


Frequency response Rx : (passband)

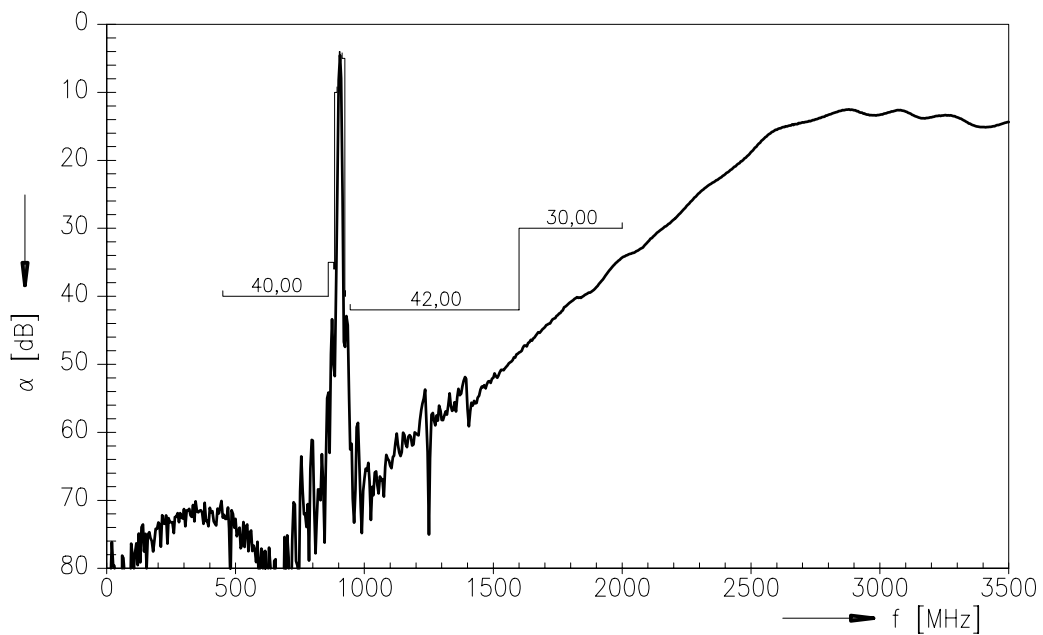




Frequency response Tx : (wideband)



Frequency response Rx : (wideband)





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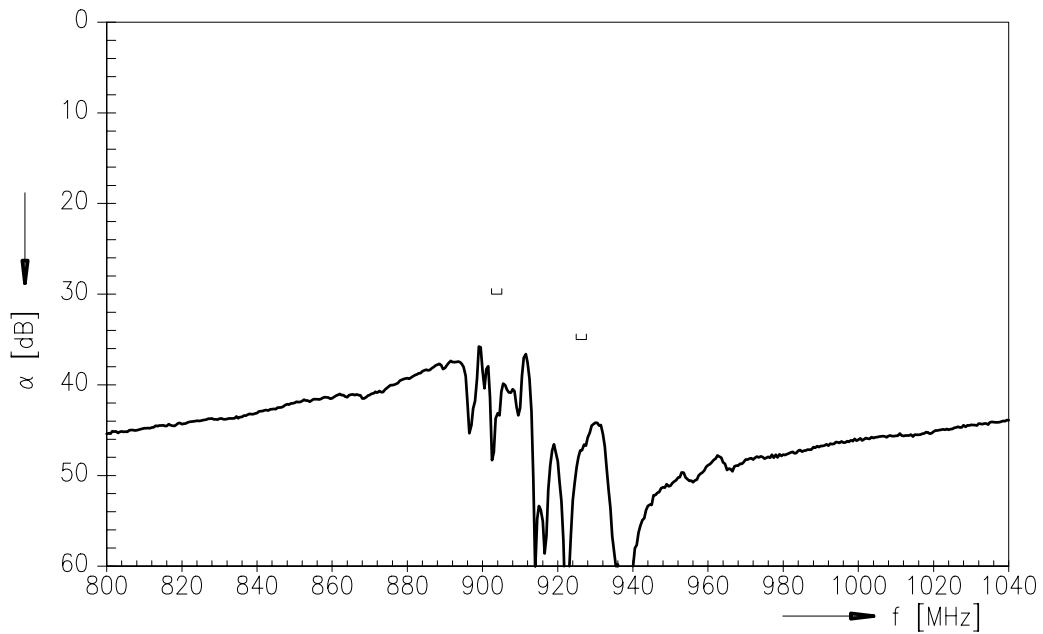


Isolation between Tx and Rx

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

		min.	typ.	max.	
Absolute attenuation	α				
	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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