EPCOS

SAW Components

Data Sheet B4063

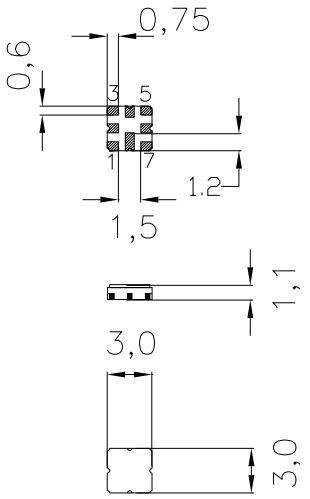
Ceramic package **QCC8D**

Features

- Compact RF duplexer for cordless telephone ISM
- No matching network required for operation at 50 Ω
- Ceramic package for **S**urface **M**ounted **T**echnology (**SMT**)

Terminals

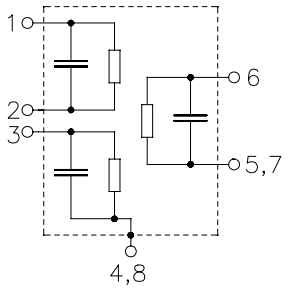
- Ni , gold-plated



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 **S**ensitive **D**evice (**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

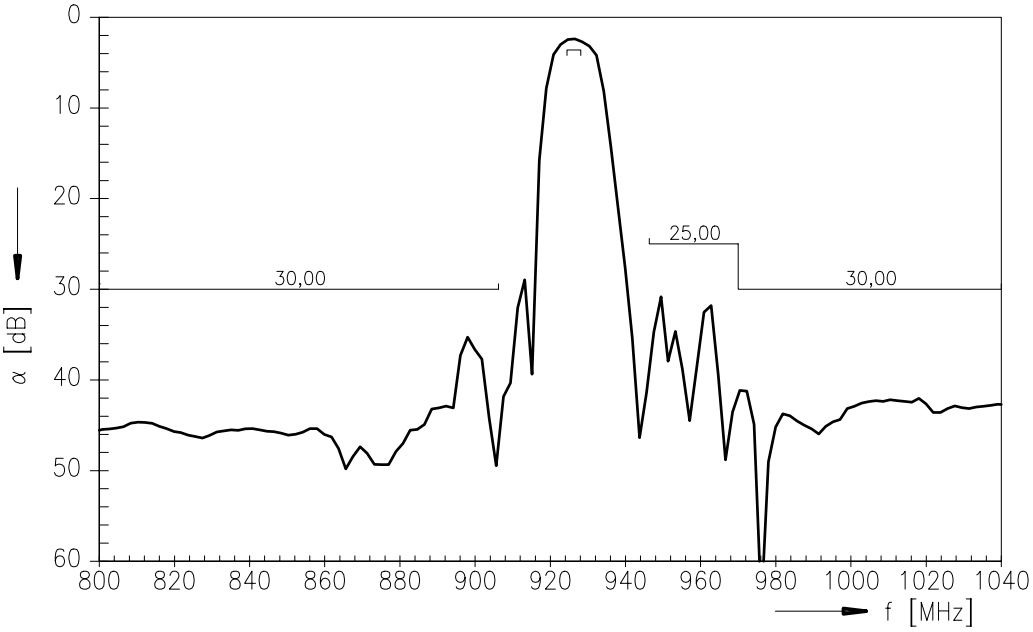
		min.	typ.	max.	
Center frequency	f_c	—	926,25	—	MHz
Maximum insertion attenuation	α_{max}				
924,40 ... 928,10 MHz		—	3,0	3,6	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
924,40 ... 928,10 MHz		—	0,4	1,5	dB
Absolute attenuation	α				
450,00 ... 906,20 MHz		30	34	—	dB
946,30 ... 970,00 MHz		25	31	—	dB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

Characteristics Rx - Ant

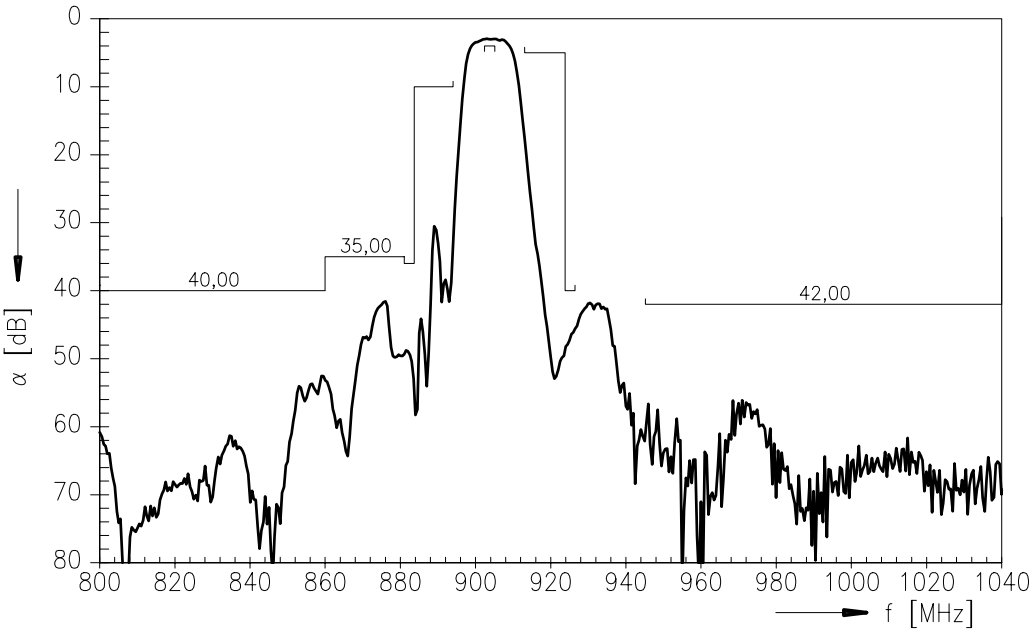
Operable temperature range T_A = –10 to 55 °C
Ant term. impedance Z_{Ant} = 50 Ω
Port 1 term. impedance $Z_{Port\ 1}$ = 50 Ω
Port 2 term. impedance $Z_{Port\ 2}$ = 50 Ω

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

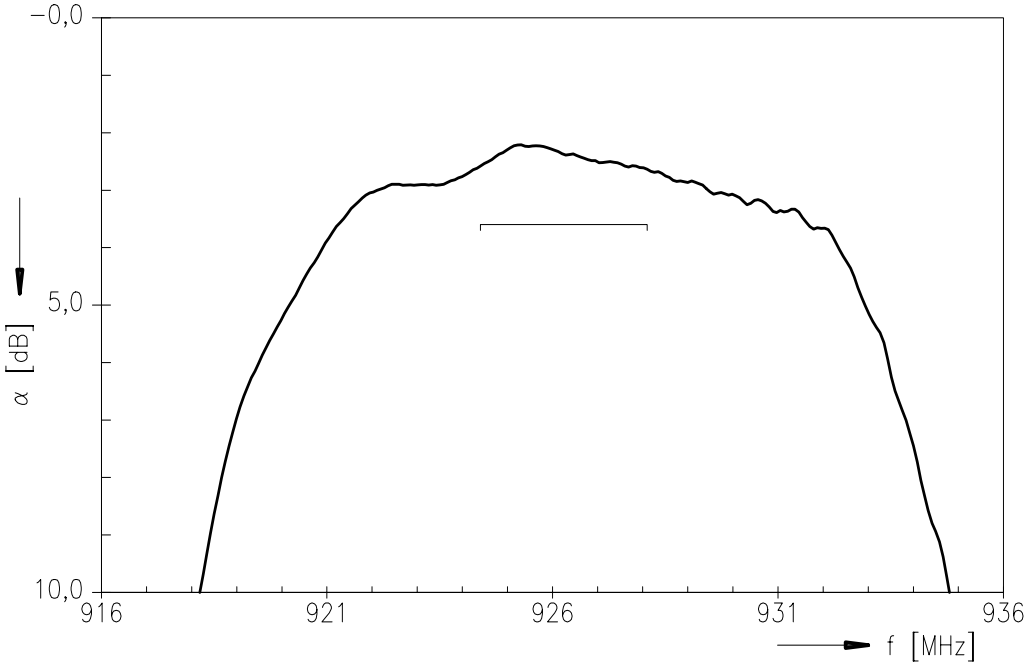
Frequency response Tx :



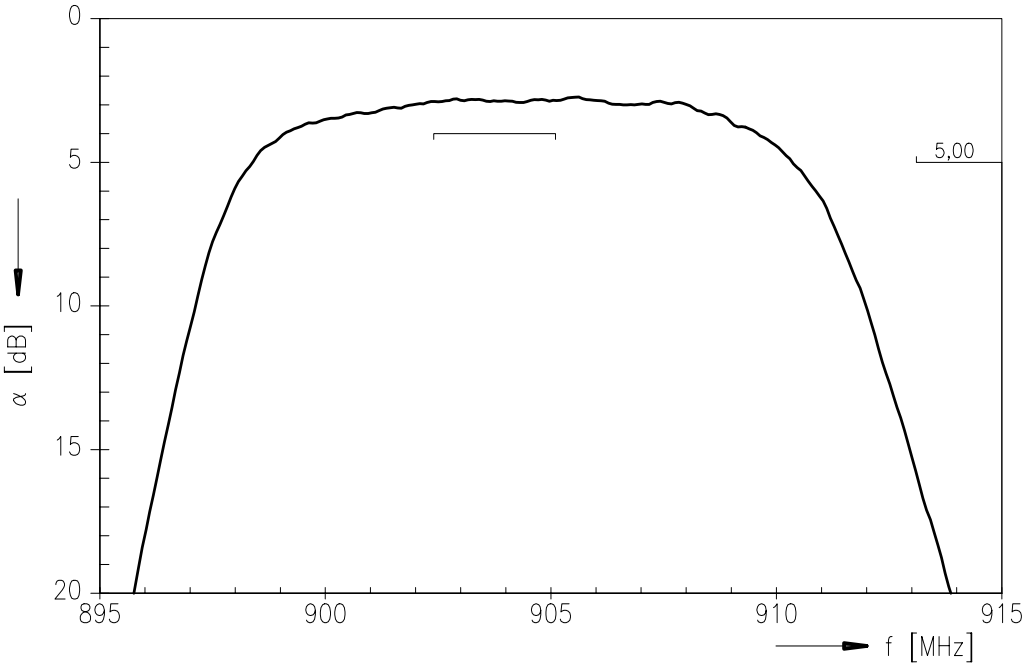
Frequency response Rx :



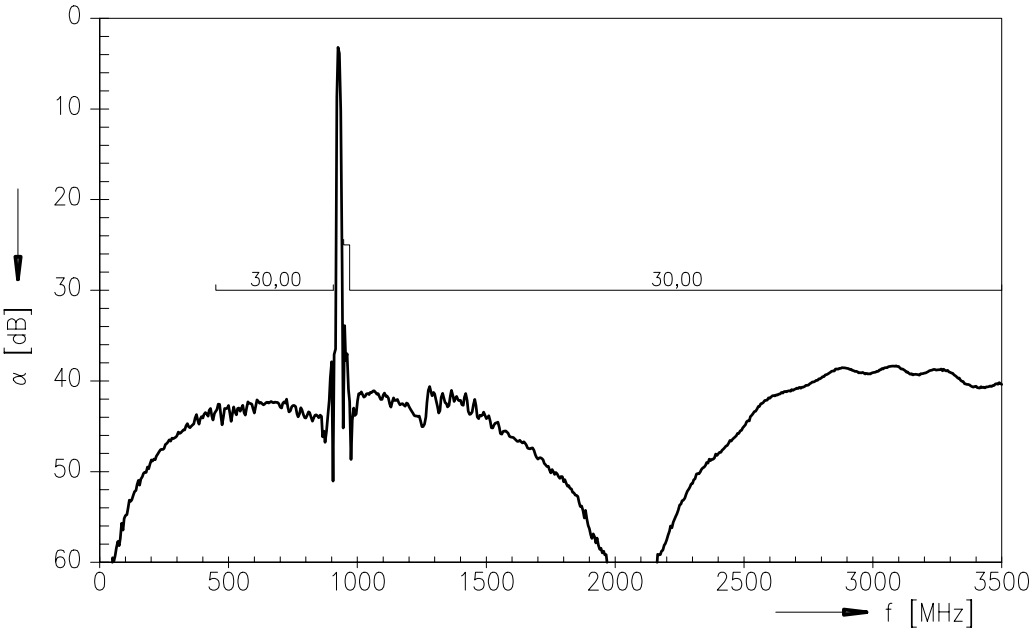
Frequency response Tx : (passband)



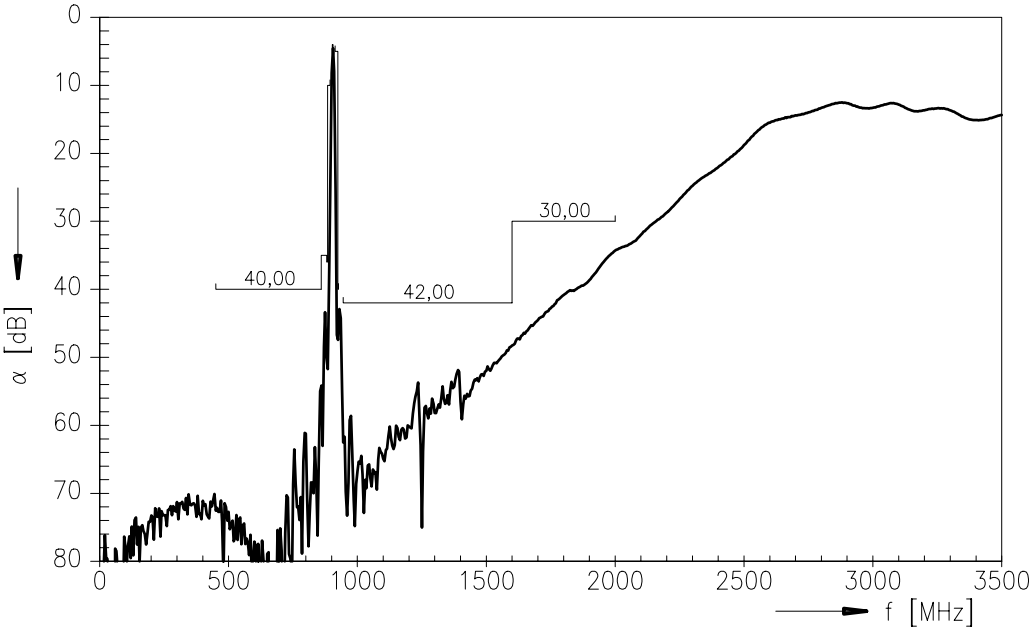
Frequency response Rx : (passband)



Frequency response Tx : (wideband)



Frequency response Rx : (wideband)

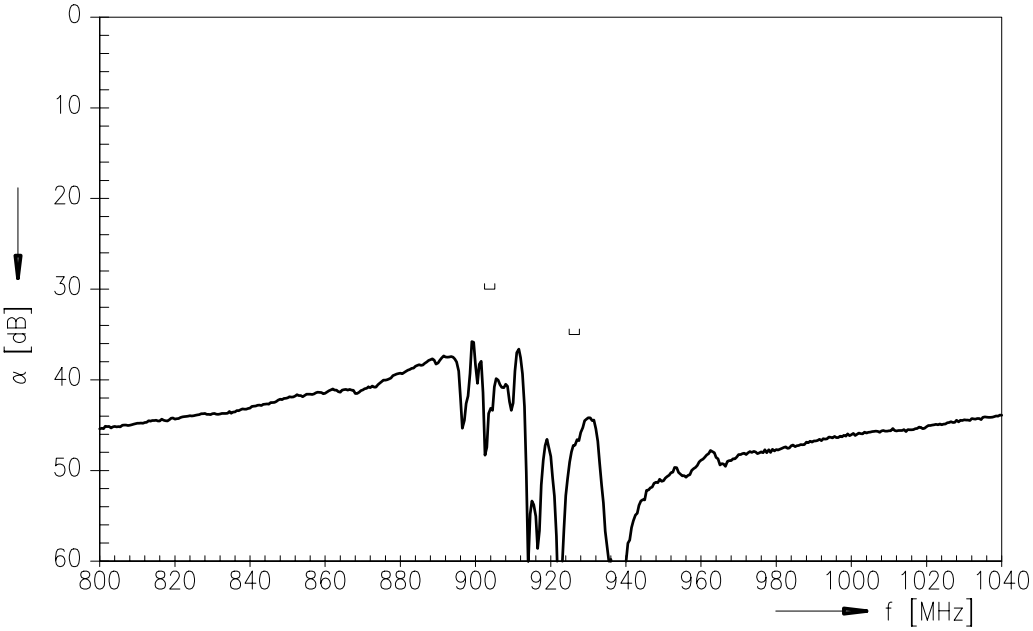


Isolation between Tx and Rx

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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