



# SAW filters for infrastructure systems

## Series/Type: B4063

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39931B4063U810		2009-09-25	2009-12-31	2010-03-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at [www.epcos.com/sales](http://www.epcos.com/sales).



## SAW Components

B4063

## Low-Loss Duplexer for Mobile Communication

926,25 / 903,75 MHz

### Data Sheet



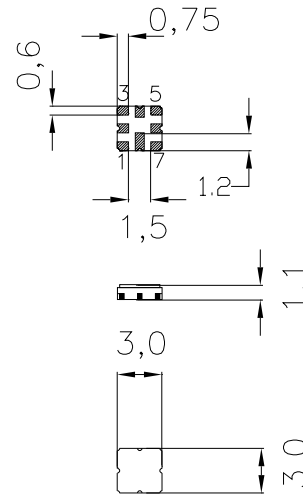
Ceramic package **QCC8D**

### Features

- Compact RF duplexer for cordless telephone ISM
- No matching network required for operation at 50  $\Omega$
- Ceramic package for **Surface Mounted Technology (SMT)**

### Terminals

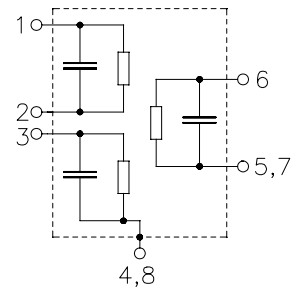
- Ni, gold-plated



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	$^{\circ}\text{C}$	
Storage temperature range	$T_{\text{stg}}$	- 40/+ 85	$^{\circ}\text{C}$	
DC voltage	$V_{\text{DC}}$	5	V	
Input power	$P_{\text{IN}}$	5	dBm	



# SAW Components

B4063

## Low-Loss Duplexer for Mobile Communication

926,25 / 903,75 MHz

### Data Sheet



#### Characteristics Tx - Ant

Operable temperature range  $T_A = -10$  to  $55\text{ }^{\circ}\text{C}$

Ant term. impedance  $Z_{Ant} = 50\text{ }\Omega$

Port 1 term. impedance  $Z_{Port\ 1} = 50\text{ }\Omega$

Port 2 term. impedance  $Z_{Port\ 2} = 50\text{ }\Omega$

		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>	$\alpha$				
	450,00 ... 906,20 MHz	30	34	—	dB
	946,30 ... 970,00 MHz	25	31	—	dB
	970,00 ... 3500,00 MHz	30	39	—	dB



# SAW Components

B4063

## Low-Loss Duplexer for Mobile Communication

926,25 / 903,75 MHz

### Data Sheet



#### Characteristics Rx - Ant

Operable temperature range  $T_A = -10$  to  $55\text{ }^{\circ}\text{C}$

Ant term. impedance  $Z_{Ant} = 50\text{ }\Omega$

Port 1 term. impedance  $Z_{Port\ 1} = 50\text{ }\Omega$

Port 2 term. impedance  $Z_{Port\ 2} = 50\text{ }\Omega$

		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	—	3,1	4,0	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	—	0,2	1,5	dB
	902,40 ... 905,10 MHz	—	0,2	1,5	dB
<b>Absolute attenuation</b>	$\alpha$				
	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



SAW Components

B4063

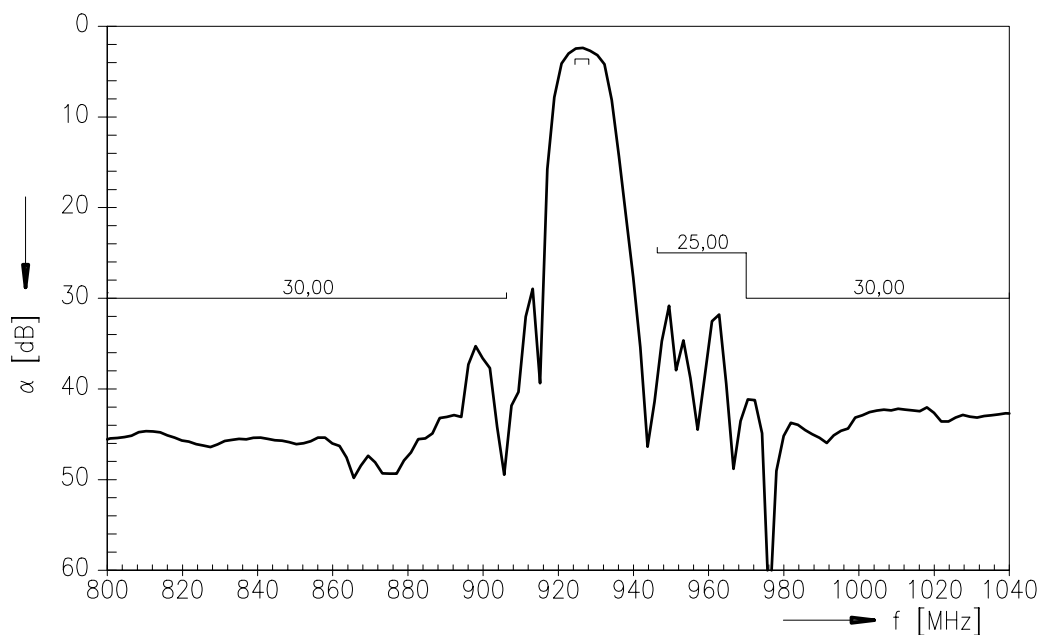
Low-Loss Duplexer for Mobile Communication

926,25 / 903,75 MHz

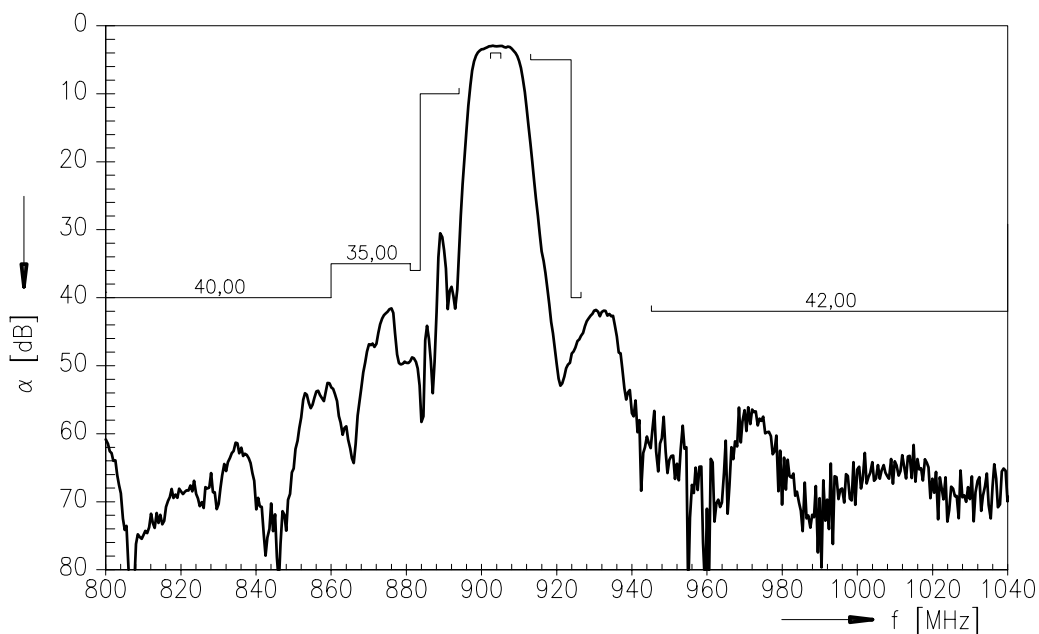
Data Sheet



### Frequency response Tx :



### Frequency response Rx :





SAW Components

B4063

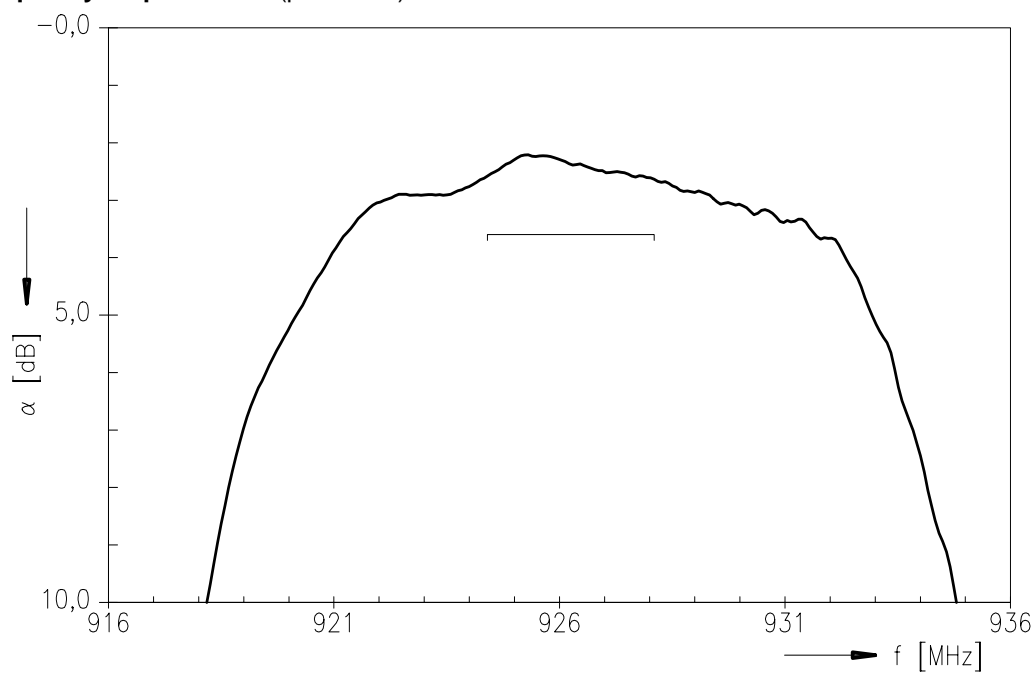
Low-Loss Duplexer for Mobile Communication

926,25 / 903,75 MHz

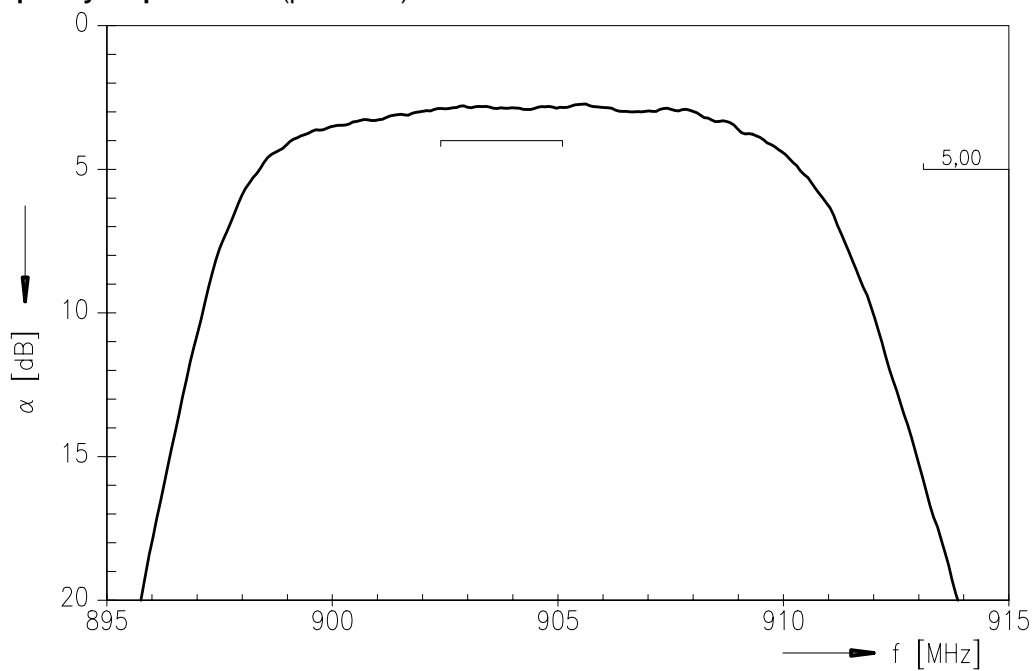
Data Sheet



**Frequency response Tx : (passband)**



**Frequency response Rx : (passband)**





SAW Components

B4063

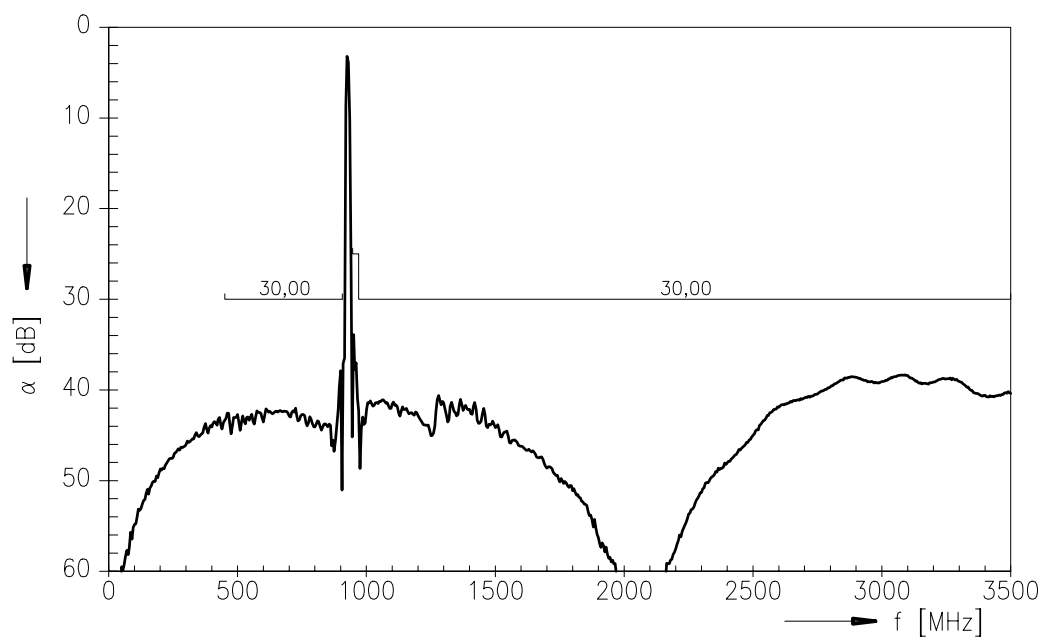
Low-Loss Duplexer for Mobile Communication

926,25 / 903,75 MHz

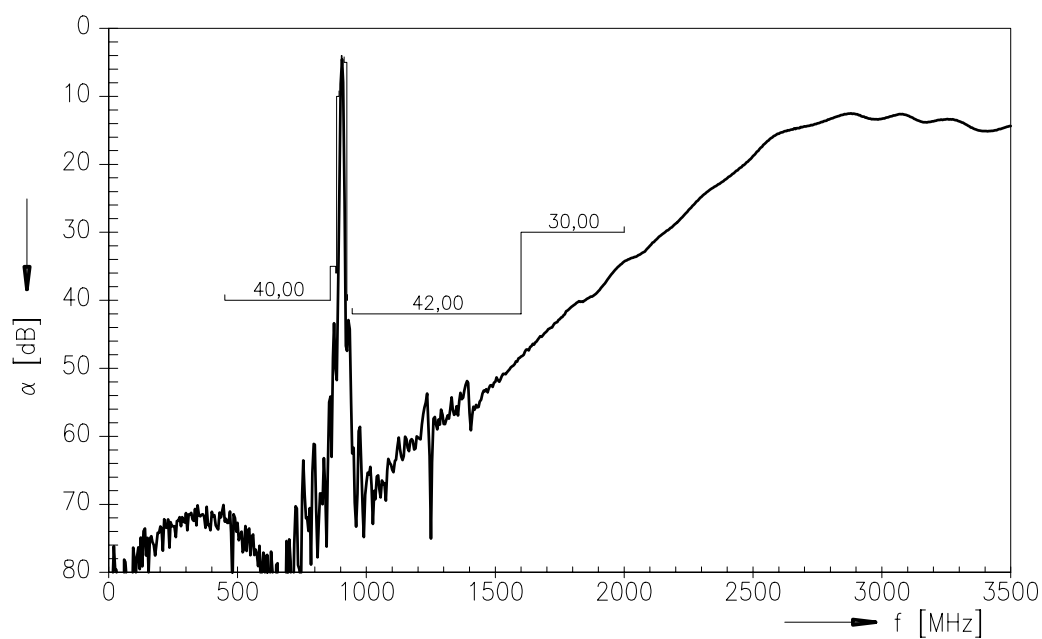
Data Sheet



**Frequency response Tx : (wideband)**

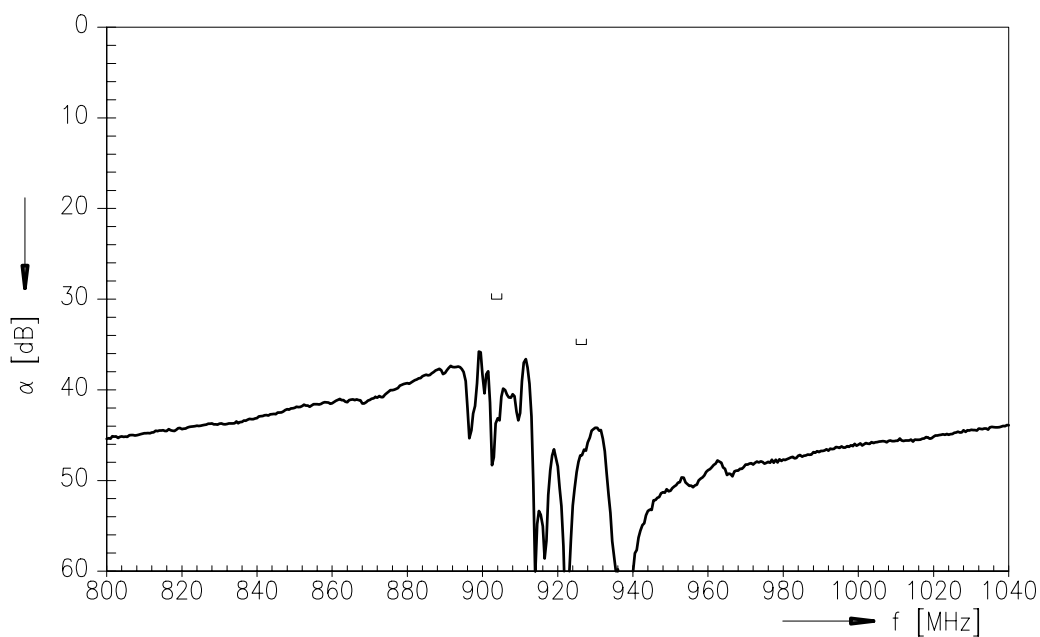


**Frequency response Rx : (wideband)**



**SAW Components****B4063****Low-Loss Duplexer for Mobile Communication****926,25 / 903,75 MHz****Data Sheet****Isolation between Tx and Rx**Operating temperature range  $T = -10$  to  $55\text{ }^{\circ}\text{C}$ Ant term. impedance  $Z_{\text{Ant}} = 50\text{ }\Omega$ Port 1 term. impedance  $Z_{\text{Port 1}} = 50\text{ }\Omega$ Port 2 term. impedance  $Z_{\text{Port 2}} = 50\text{ }\Omega$ 

		min.	typ.	max.	
Absolute attenuation	$\alpha$				
	924,40 ... 928,10 MHz	35	44	—	dB
	902,40 ... 905,10 MHz	30	38	—	dB

**Isolation between Tx and Rx :**





**SAW Components**

**B4063**

**Low-Loss Duplexer for Mobile Communication**

**926,25 / 903,75 MHz**

**Data Sheet**



**Published by EPCOS AG**

**Surface Acoustic Wave Components Division, SAW MC WT**

**P.O. Box 80 17 09, D-81617 München**

© EPCOS AG 2000. All Rights Reserved.

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.

Terms of delivery and rights to change design reserved.

For questions on technology, prices and delivery please contact the sales offices of EPCOS AG or the international representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our sales offices.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

EPCOS:

[B39931B4063U810](#)