

Data Sheet B7809





B7809

## **Low-Loss Filter for Mobile Communication**

2441,75 MHz

**Data Sheet** 

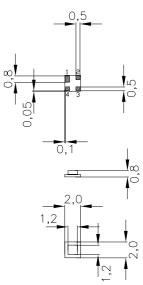


#### **Features**

- Low-loss RF filter for Bluetooth
- Low amplitude ripple
- Usable passband 83,5 MHz
- $\blacksquare$  No matching network required for operation at 50  $\Omega$
- Ceramic package for Surface Mounted Technology (SMT)

### **Terminals**

■ Gold-plated Ni

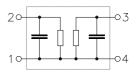


Chip sized SAW package

Dimensions in mm, approx. weight 0,01 g

## Pin configuration

2	Input
3	Output
1 4	Ground



Туре	Ordering code	Marking and Package according to	Packing according to		
B7809	B39242-B7809-A510	C61157-A7-A63	F61074-V8099-Z000		

Electrostatic Sensitive Device (ESD)

### **Maximum ratings**

T	<b>- 40/+ 85</b>	°C	
$T_{\rm sta}$	<b>- 40/+ 85</b>	°C	
	0	V	
	15.0	dD.m	source impedance 50 $\Omega$ ,
$P_{IN}$	15,0	abm	2400,0 2483,5 MHz
	$T$ $T_{ m stg}$ $V_{ m DC}$ $P_{ m IN}$	$T_{\text{stg}} V_{\text{DC}} = -40/+85$	$T_{\text{stg}}$ $V_{\text{DC}}$ $-40/+85$ °C V



B7809

## **Low-Loss Filter for Mobile Communication**

2441,75 MHz

**Data Sheet** 

## Characteristics

Operating Temperature Range:  $T = -40^{\circ} \text{C to } 85^{\circ} \text{C}$ 

Terminating source impedance:  $Z_{\rm S} = 50\Omega$ Terminating load impedance:  $Z_{\rm L} = 50\Omega$ 

		min.	typ.	max.	
Center frequency	$f_{\mathbb{C}}$	_	2441,75	_	MHz
Maximum insertion attenuation 2400,0 2483,5 MHz	$\alpha_{max}$	_	2,6	3,5	dB
Amplitude ripple	$\Delta \alpha$				
2400,0 2483,5 MHz			1,2	2,2	dB
2400,0 2483,5 MHz *)			1,2	2,0	dB
Attenuation					
0,00 1785,00 MHz	<u>-</u>	15	17	_	dB
1785,00 1850,00 MHz	<u>-</u>	20	24	_	dB
1850,00 1950,00 MHz	<u> </u>	22	26	_	dB
1950,00 2170,00 MHz	<u>'</u>	24	29	_	dB
2170,00 2250,00 MHz	<u>-</u>	20	24		dB
2250,00 2300,00 MHz	<u>-</u>	18	20		dB
2600,00 3000,00 MHz	<u>'</u>	20	25	_	dB
3000,00 4000,00 MHz	<u> </u>	15	18	_	dB
4000,00 5000,00 MHz	<u> </u>	12	15	_	dB

<sup>\*)</sup> T= -30°C to 85°C



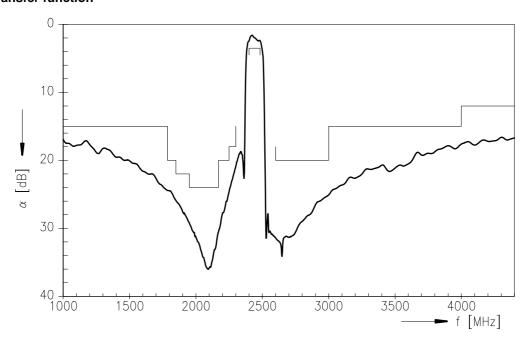
SAW Components B7809

Low-Loss Filter for Mobile Communication 2441,75 MHz

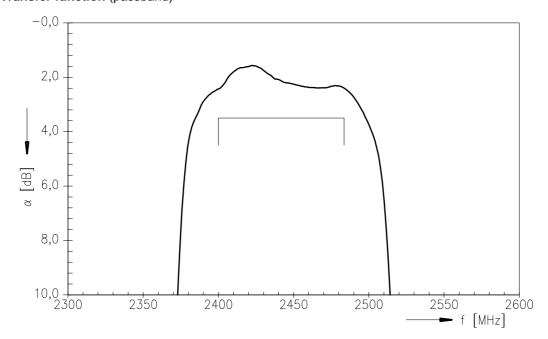
**Data Sheet** 



## **Transfer function**



## Transfer function (passband)





**Low-Loss Filter for Mobile Communication** 

2441,75 MHz

B7809

**Data Sheet** 



## Published by EPCOS AG SAW MC WT, P.O. Box 80 17 09, 81617 Munich, GERMANY TEL +49 89 636 09, FAX +49 89 636-2 26 89

© EPCOS AG 2002. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

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.