

Data Sheet B7809





B7809

Low-Loss Filter for Mobile Communication

2441,75 MHz

Data Sheet

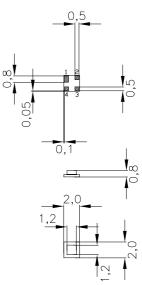


Features

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

Terminals

■ Gold-plated Ni

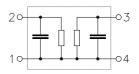


Chip sized SAW package

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	- 40/+ 85	°C	
$T_{\rm sta}$	- 40/+ 85	°C	
	0	V	
	15.0	dD.m	source impedance 50 Ω ,
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_{stg} V_{DC} $-40/+85$ °C V



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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	α_{max}	_	2,6	3,5	dB
Amplitude ripple					
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

^{*)} T= -30°C to 85°C



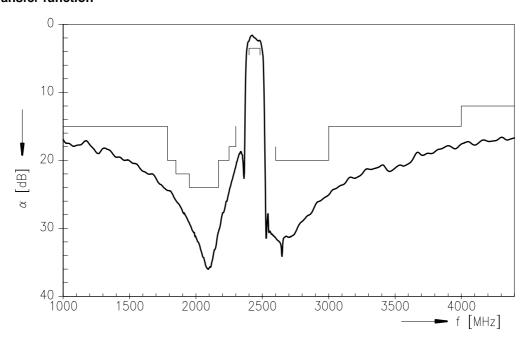
SAW Components B7809

Low-Loss Filter for Mobile Communication 2441,75 MHz

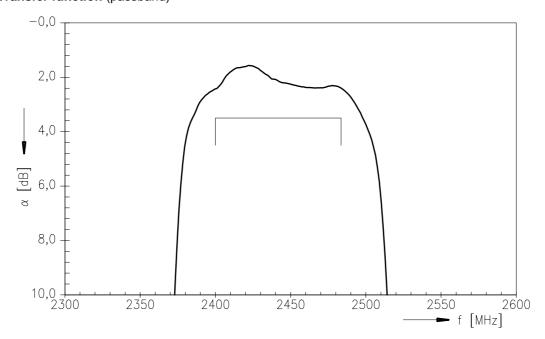
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Transfer function



Transfer function (passband)





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