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# SAW Components

EPCOS

Data Sheet B4832

Data Sheet



SAW Components		B4832
Low-Loss Filter for Mo	bile Communication	400,0 MHz
Data Sheet	<u>=MD</u>	

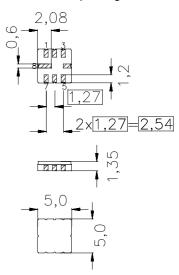
# FeaturesLow-loss IF filter for mobile telephone

- Channel selection in GSM/PCN systems
- Ceramic SMD package

# Terminals

Gold-plated Ni

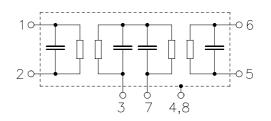
# SMD ceramic package QCC8C



#### Dimensions in mm, approx. weight 0,07 g

# Pin configuration

- 1 Input
- 2 Input ground or balanced input
- 5 Output
- 6 Output ground or balanced output
- 7 External coupling coil
- 4,8 Case ground
- 3 To be grounded



Туре	Ordering code	Marking and Package according to	Packing according to
B4832	B39401-B4832-U310	C61157-A7-A53	F61074-V8070-Z000

Electrostatic Sensitive Device (ESD)

### **Maximum ratings**

Operable temperature range	T	- 40 / +85	°C	
Storage temperature range	T <sub>stg</sub>	– 40 / +85	°C	
ESD voltage	V <sup>*</sup> <sub>ESD</sub>	100	V	Machine Model, 10 pulses
DC voltage	V <sub>DC</sub>	0	V	
Source power	Ps	10	dBm	

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\*-acc. to JESD22-A115A(Machine Model), 10 negative & 10 positive pulses



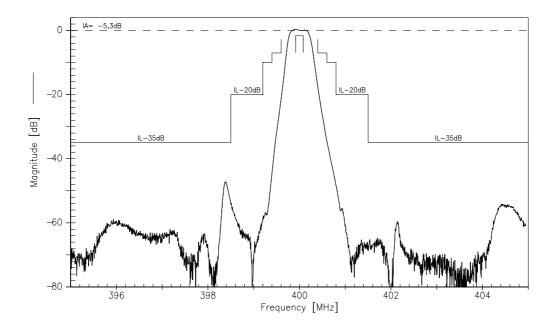
SAW Components						B4832
Low-Loss Filter for Mobile Communication					400	,0 MHz
Data Sheet Characteristics	=N					
Operating temperature range: Terminating source impedance: Terminating load impedance:	Ζs	= 600 \$	C to +85°C Ω    90 nH Ω    90 nH			
External Coil:	$L_c = 47 \text{ nH}$					
			min.	typ.	max.	
Nominal frequency		f <sub>N</sub>	_	400,0	_	MHz
Maximum insertion attenuation						
(excluding loss in matching elements)						
<i>f</i> <sub>N</sub> -0,083 <i>f</i> <sub>N</sub> +0,083	MHz		—	3,7	6,0	dB
(including loss in matching elements)		$\alpha_{max}$				
<i>f</i> <sub>N</sub> -0,083 <i>f</i> <sub>N</sub> +0,083	MHz		—	5,2	7,5	dB
Amplitude ripple (p-p)		Δα				
<i>f</i> <sub>N</sub> -0,083 <sub></sub> <i>f</i> <sub>N</sub> +0,083	MHz		—	1,0	2,0	dB
Relative attenuation (relative to $\alpha_{max}$ )		$\alpha_{rel}$				
<i>f</i> <sub>N</sub> -100,0 <i>f</i> <sub>N</sub> -1,5	MHz		35,0	48,0	—	dB
<i>f</i> <sub>N</sub> -1,5 <i>f</i> <sub>N</sub> -0,8	MHz		20,0	51,0	—	dB
<i>f</i> <sub>N</sub> -0,8 <i>f</i> <sub>N</sub> -0,6	MHz		10,0	45,0	—	dB
<i>f</i> <sub>N</sub> -0,6 <i>f</i> <sub>N</sub> -0,4	MHz		7,0	15,0	—	dB
<i>f</i> <sub>N</sub> +0,4 <i>f</i> <sub>N</sub> +0,6	MHz		7,0	15,0	—	dB
<i>f</i> <sub>N</sub> +0,6 <sub></sub> <i>f</i> <sub>N</sub> +0,8	MHz		10,0	30,0	—	dB
<i>f</i> <sub>N</sub> +0,8 <i>f</i> <sub>N</sub> +1,5	MHz		20,0	40,0	—	dB
f <sub>N</sub> +1,5 <sub></sub> f <sub>N</sub> +100,0	MHz		35,0	54,0	—	dB
Group delay ripple (p-p)		Δτ				
f <sub>N</sub> -0,083 f <sub>N</sub> +0,083	MHz		_	0,55	1,0	μs
Temperature coefficient of frequency <sup>1)</sup>		TC <sub>f</sub>		- 0,036		ppm/K <sup>2</sup>
Frequency inversion point		T <sub>0</sub>	—	20	—	°C

<sup>1)</sup> Temperature dependence of  $f_c$ :  $f_c(T) = f_c(T_0)(1 + TC_f(T - T_0)^2)$ 

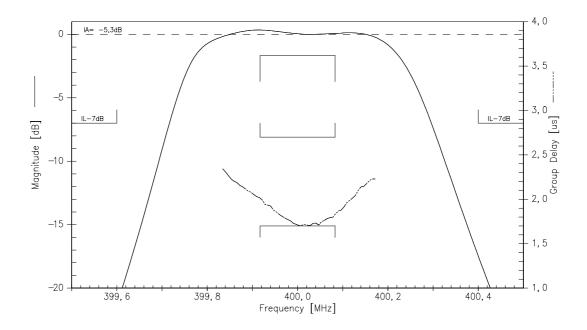
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SAW Components		B4832
Low-Loss Filter for Mo	400,0 MHz	
Data Sheet	SMD	

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Transfer function (including losses of matching elements and balun):



Transfer function (pass band, including losses of matching elements and balun):

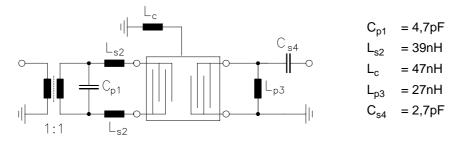


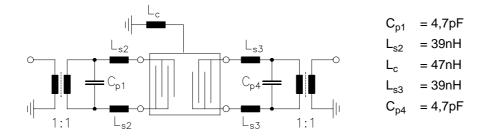
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EPCOS	5

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Test matching network to 50  $\Omega$  (element values depend on PCB layout, balun TOKO B5FL):





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