

SAW Components

Data Sheet B4832





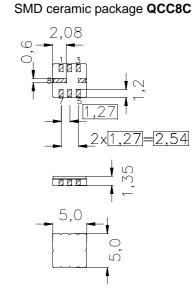
SAW Components		B4832
Low-Loss Filter for Mo	bile Communication	400,0 MHz
Data Sheet	SMD	

Features

- Low-loss IF filter for mobile telephone
- Channel selection in GSM/PCN systems
- Ceramic SMD package

Terminals

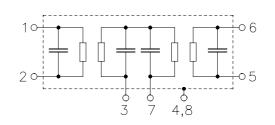
Gold-plated Ni



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	Т	– 40 / +85	°C	
Storage temperature range	T _{stg}	– 40 / +85	°C	
ESD voltage	V* _{ESD}	100	V	Machine Model, 10 pulses
DC voltage	V _{DC}	0	V	
Source power	Ps	10	dBm	

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



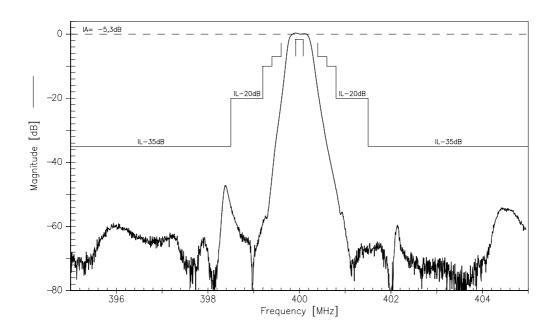
SAW Components						B4832
Low-Loss Filter for Mobile Communication				400	,0 MHz	
Data Sheet Characteristics	=N					
Operating temperature range: Terminating source impedance: Terminating load impedance:	0	= 600 9	C to +85°C 2 90 nH 2 90 nH			
External Coil:	L_{c}	= 47 nł	4			
			min.	typ.	max.	
Nominal frequency		f _N	_	400,0		MHz
Maximum insertion attenuation (excluding loss in matching elements)						
f _N -0,083f _N +0,083	MHz		_	3,7	6,0	dB
(including loss in matching elements) $f_{\rm N}$ -0,083 $f_{\rm N}$ +0,083	MHz	α_{max}	_	5,2	7,5	dB
Amplitude ripple (p-p)		Δα				
f _N -0,083 f _N +0,083	MHz		—	1,0	2,0	dB
Relative attenuation (relative to α_{max})		α_{rel}				
<i>f</i> _N -100,0 <i>f</i> _N -1,5	MHz		35,0	48,0	—	dB
<i>f</i> _N -1,5 <i>f</i> _N -0,8	MHz		20,0	51,0	—	dB
<i>f</i> _N -0,8 <i>f</i> _N -0,6	MHz		10,0	45,0	—	dB
<i>f</i> _N -0,6 <i>f</i> _N -0,4	MHz		7,0	15,0	—	dB
<i>f</i> _N +0,4 <i>f</i> _N +0,6	MHz		7,0	15,0	—	dB
<i>f</i> _N +0,6 <i>f</i> _N +0,8	MHz		10,0	30,0	—	dB
f _N +0,8 <u></u> f _N +1,5	MHz		20,0	40,0	—	dB
f _N +1,5 f _N +100,0	MHz		35,0	54,0		dB
Group delay ripple (p-p)		Δτ				
<i>f</i> _N -0,083 <i>f</i> _N +0,083	MHz		—	0,55	1,0	μs
Temperature coefficient of frequency 1)		TC _f	_	- 0,036		ppm/K ²
Frequency inversion point		T ₀	_	20	_	°C

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

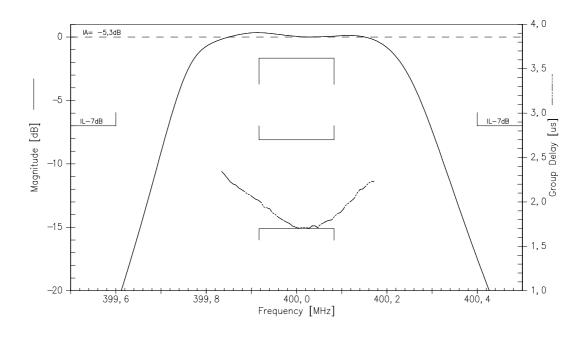


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Transfer function (including losses of matching elements and balun):



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



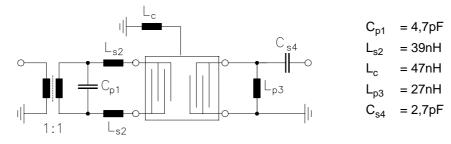
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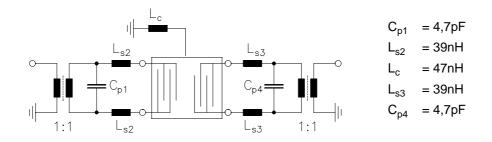
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Test matching network to 50 Ω (element values depend on PCB layout, balun TOKO B5FL):





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