

SAW Components

Data Sheet B3501





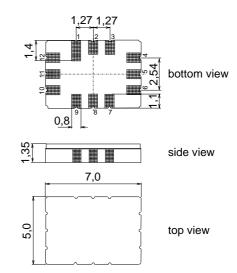
SAW Components	B3501	
Low-Loss Filter for Mobile Communication		183,6 MHz
Data Sheet	SMD	

Features

- IF filter for mobile telephone
- Channel selection in CDMA systems
- Balanced or unbalanced
- High rejection, very small size
- Low amplitude ripple
- Package for Surface Mounted Technology (SMT)
- Filter surface passivated

Terminals

Ni, gold plated



SMD ceramic package QCC12E

Dimensions in mm, approx. weight 0,25 g

Pin configurat	ion	
12	Input	
10	Balanced input or ground	
6	Output	
4	Balanced output or ground	
1, 2, 3, 7, 8, 9	To be grounded	•
		2,8

Туре	Ordering code	Marking and Package	Packing
		according to	according to
B3501	B39181-B3501-H810	C61157-A7-A103	F61074-V8170-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 40/+ 85	°C
Storage temperature range	T _{stg}	- 40/+ 85	°C
DC voltage	V _{DC}	0	V
Source power	Ps	10	dBm



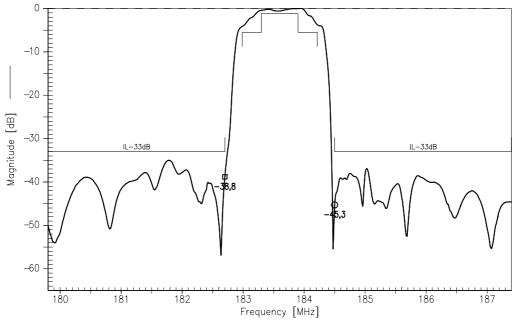


SAW Components				B3501	
Low-Loss Filter for Mobile Communication				183,6 MHz	
Data Sheet SMD					
Characteristics					
Specified temperature range: $T = -30^{\circ}$ C +85 °CTerminating source impedance: $Z_{\rm S} = 300\Omega$ 44nHTerminating load impedance: $Z_{\rm L} = 675\Omega$ 54nH					
	min.	typ.	max.		
Nominal frequency f _N	_	183,6		MHz	
$\begin{array}{l} \mbox{Minimum insertion attenuation} & \alpha_{min} \\ \mbox{(including loss in matching network without loss in balun)} \end{array}$	_	8,1	9,5	dB	
Amplitude ripple $\Delta \alpha$ $f_{\rm N}$ - 0,3 MHz $f_{\rm N}$ + 0,3 MHz	_	0,6	1,2	dB	
Phase linearity (rms deviation) $f_{\rm N} = 0,615$ MHz $f_{\rm N} = 0,615$ MHz	_	1,3	2,8	o	
Relative attenuation (relative to α_{min}) α_{rel} $f_{N} \pm 0.615 MHz$	_	4,0	5,5	dB	
f _N – 0,9 MHz f _N + 0,9 MHz	33 33	39 45		dB dB	
$f_{\rm N} = 1,25 \text{ MHz}$	33	44	_	dB	
$f_{\rm N}$ + 1,25 MHz	33	39	_	dB	
f _N – 1,7 MHz	33	37	—	dB	
<i>f</i> _N + 1,7 MHz	33	43		dB	
$f_{\rm N} \pm 2,05 \text{ MHz}$	33	42		dB	
$f_{\rm N} = 9,0$ MHz $f_{\rm N} = 1,25$ MHz	33	35		dB	
f _N + 1,25 MHz f _N + 9,0 MHz	33	37		dB	

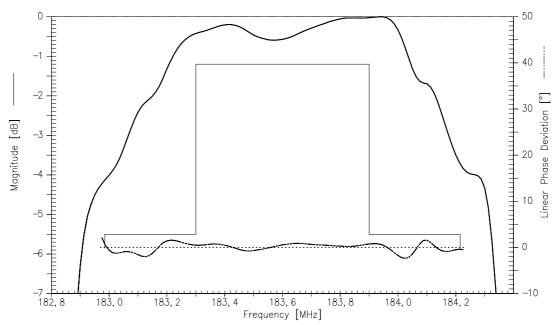




Normalized transfer function (measurement):



Normalized transfer function (measurement, passband):



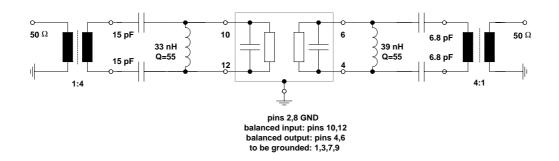
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		183,6 MHz		
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Test matching network

(Element values depend on pcb layout)



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This brochure replaces the previous edition.

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