

# SAW Components

Data Sheet B4943





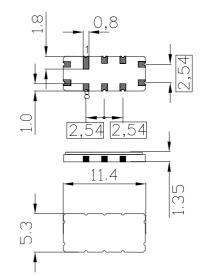
SAW Components		B4943
Low-Loss Filter for Mob	ile Communication	85,38 MHz
Data Sheet	SMD	

#### Features

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

#### Terminals

Ni, gold plated

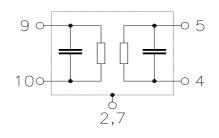


SMD ceramic package QCC10C

Dimensions in mm, approx. weight 0,24 g

## **Pin configuration**

10	Input
9	Balanced input or input ground
5	Output
4	Balanced output or output ground
2, 7	Case ground
1, 3, 6, 8	Not connected



Туре	Ordering code	Marking and Package	Packing	
		according to	according to	
B4943	B39850-B4943-U910	C61157-A7-A73	F61074-V8105-Z000	

Electrostatic Sensitive Device (ESD)

## **Maximum ratings**

Operable temperature range	Т	- 40/+ 85	°C
Storage temperature range	T <sub>stg</sub>	- 40/+ 85	°C
DC voltage	V <sub>DC</sub>	13	V
Source power	Ps	10	dBm

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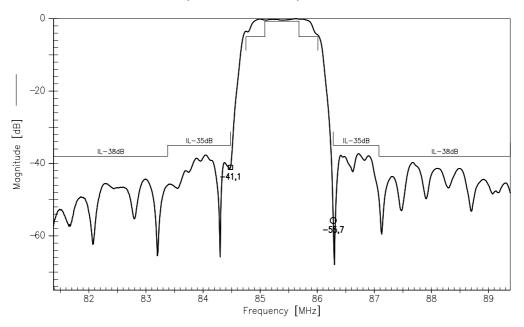


SAW Components				B4943	
Low-Loss Filter for Mobile Communication				85,38 MHz	
Data Sheet SMD					
Characteristics					
Operating temperature range: $T = -35^{\circ}C \dots +85^{\circ}C$ Terminating source impedance: $Z_{\rm S} = 1975 \Omega \parallel 340 \text{ nH}$ Terminating load impedance: $Z_{\rm L} = 1600 \Omega \parallel 350 \text{ nH}$					
	min.	typ.	max.		
Nominal frequency f <sub>N</sub>		85,38	—	MHz	
	_	10,0	11,5	dB	
Amplitude ripple $\Delta \alpha$ $f_{\rm N} = 0,3$ MHz $f_{\rm N} = 0,3$ MHz	_	0,5	0,8	dB	
<b>Phase linearity</b> (rms deviation) $f_{\rm N} = 0,63$ MHz $f_{\rm N} = 0,63$ MHz	_	2,5	3,5	o	
$\begin{array}{l} \mbox{Relative attenuation (relative to $\alpha_{min}$) $ $\alpha_{rel}$ $ $f_N \pm 0.63$ MHz $ $ $f_N \pm 0.63$ MHz $ $ $ $f_N \pm 0.63$ MHz $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $$	_	4,0	5,0	dB	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	35 35 38 38 35 35 38	41 55 39 44   		dB dB dB dB dB dB dB dB dB	

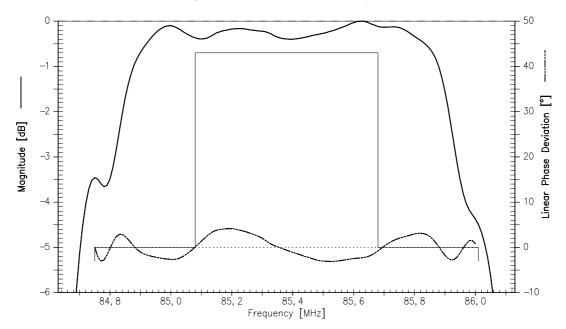


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Normalized transfer function (balanced/balanced)



## Normalized transfer function (passband, balanced/balanced):

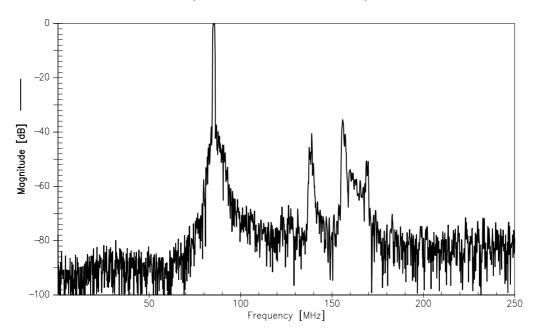


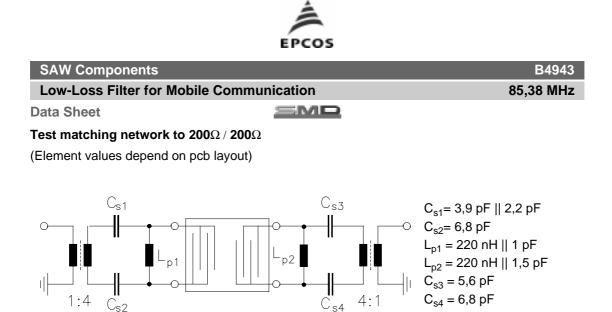
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SAW Components	B4943		
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Normalized transfer function (wideband, balanced/balanced)





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