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# SAW Components

EPCOS

Data Sheet B4943

Data Sheet



SAW Components	B4943
Low-Loss Filter for Mobile Communication	85,38 MHz

**Data Sheet** 

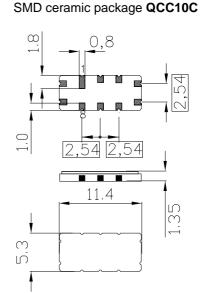
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#### Features

- 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

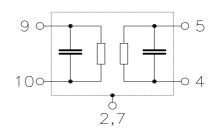
Ni, gold plated



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

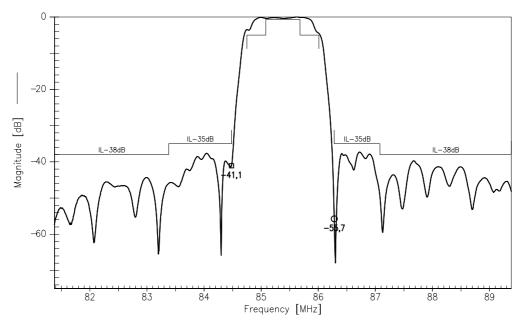
2



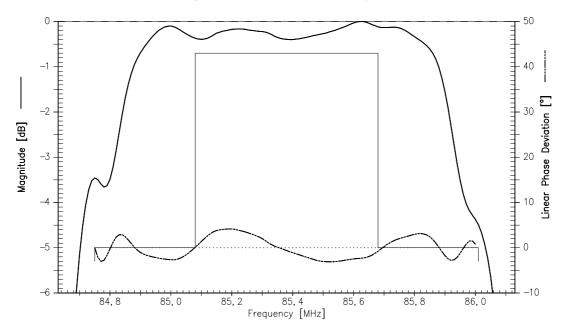
SAW Components				B4943
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Characteristics				
Operating temperature range: $T = -35^\circ$ Terminating source impedance: $Z_{\rm S} = 197^\circ$ Terminating load impedance: $Z_{\rm I} = 160^\circ$	5 Ω    340 n	Н		
	min.	typ.	max.	
Nominal frequency f <sub>N</sub>		85,38		MHz
$\begin{array}{l} \mbox{Minimum insertion attenuation} & \alpha_{min} \\ \mbox{(including loss in matching network without loss in balun)} \end{array}$	_	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) $f_N = 0.63$ MHz $f_N = 0.63$ MHz	_	2,5	3,5	o
Relative attenuation (relative to $\alpha_{min}$ ) $\alpha_{rel}$ $f_{N} \pm 0.63$ MHz	_	4,0	5,0	dB
$\begin{array}{llllllllllllllllllllllllllllllllllll$	35 35 38 38 35 35 35 38	41 55 39 44   		dB dB dB dB dB dB dB dB

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Normalized transfer function (balanced/balanced)



Normalized transfer function (passband, balanced/balanced):

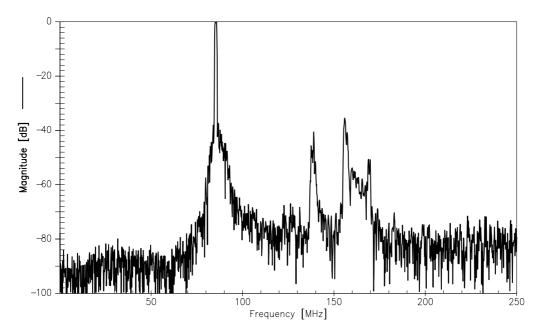


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Normalized transfer function (wideband, balanced/balanced)

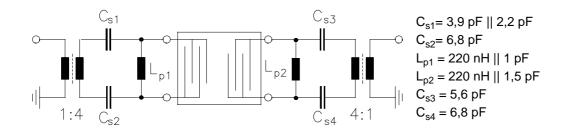


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Data Sheet	SMD	

Test matching network to  $\textbf{200}\Omega \,/\, \textbf{200}\Omega$ 

(Element values depend on pcb layout)



#### Published by EPCOS AG Surface Acoustic Wave Components Division, OFW E MF P.O. Box 80 17 09, D-81617 München

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