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SAW Components

EPCOS

Data Sheet B4943

Data Sheet



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

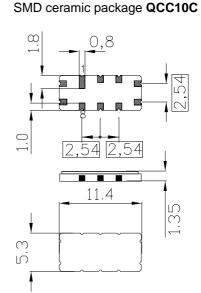
Data Sheet

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

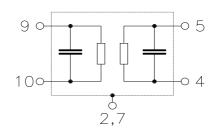
Ni, gold plated



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 _{stg} | - 40/+ 85 | °C |
| DC voltage | V _{DC} | 13 | V |
| Source power | Ps | 10 | dBm |

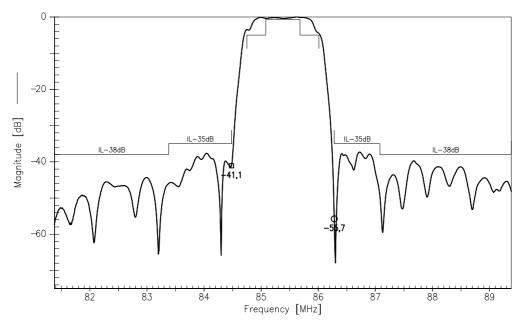
2



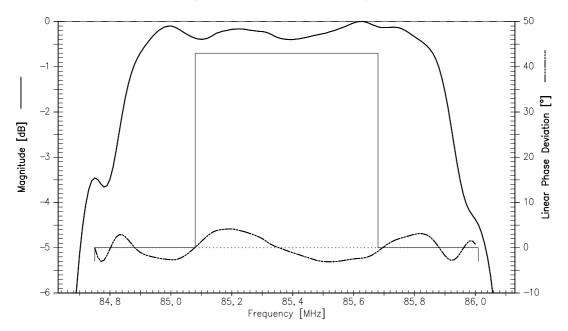
| SAW Components | | | | B4943 |
|---|--|----------------------------------|------|--|
| Low-Loss Filter for Mobile Communication | | | 85, | 38 MHz |
| Data Sheet | | | | |
| Characteristics | | | | |
| Operating temperature range: $T = -35^\circ$ Terminating source impedance: $Z_{\rm S} = 197^\circ$ Terminating load impedance: $Z_{\rm I} = 160^\circ$ | 5 Ω 340 n | Н | | |
| | min. | typ. | max. | |
| Nominal frequency f _N | | 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 |
| Phase linearity (rms deviation) $f_N = 0.63$ MHz $f_N = 0.63$ MHz | _ | 2,5 | 3,5 | o |
| Relative attenuation (relative to α_{min}) α_{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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| Low-Loss Filter for Mobile Communication | | 85,38 MHz | |
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Normalized transfer function (balanced/balanced)



Normalized transfer function (passband, balanced/balanced):

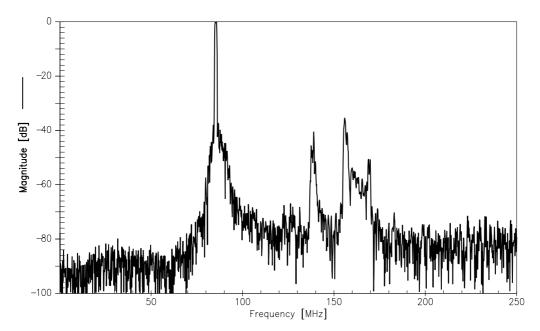


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| Low-Loss Filter for Mo | bile Communication | 85,38 MHz |
| Data Sheet | SMD | |

Normalized transfer function (wideband, balanced/balanced)

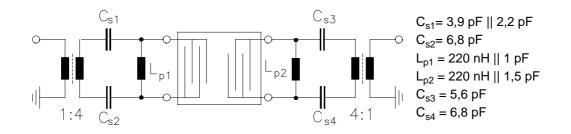


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|----------------------------------|----------|-----------|
| Low-Loss Filter for Mobile Commu | nication | 85,38 MHz |
| Data Sheet | SMD | |

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

(Element values depend on pcb layout)



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