

SAW Components

Data Sheet B4955





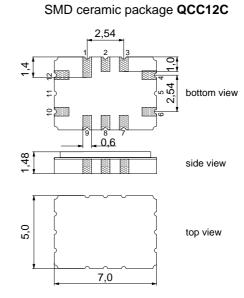
| SAW Components | B4955 | | |
|--|-------|-----------|--|
| Low-Loss Filter for Mobile Communication | | 183,6 MHz | |
| Data Sheet | SMD | | |

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



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 |
| B4955 | B39181-B4955-H310 | C61157-A7-A95 | F61074-V8170-Z000 |

Electrostatic Sensitive Device (ESD)

Maximum ratings

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

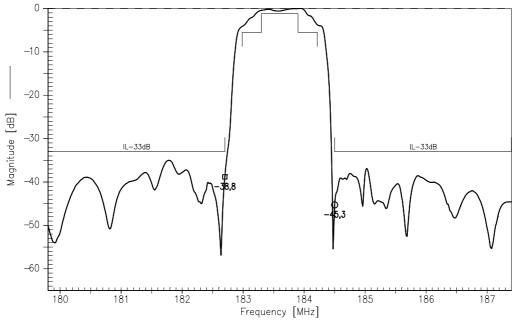


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|---|--|--|------|--|--|
| Low-Loss Filter for Mobile Communication | | | | 183,6 MHz | |
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| Characteristics | | | | | |
| Specified temperature range: $T = -30^{\circ}$ C +85 °CTerminating source impedance: $Z_{S} = 300\Omega \parallel 44$ nHTerminating load impedance: $Z_{L} = 675\Omega \parallel 54$ nH | | | | | |
| | 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 | |
| $\begin{array}{llllllllllllllllllllllllllllllllllll$ | 33 33 33 33 33 33 33 33 33 33 33 | 39 45 44 39 37 43 42 35 37 | | dB dB dB dB dB dB dB dB dB dB | |

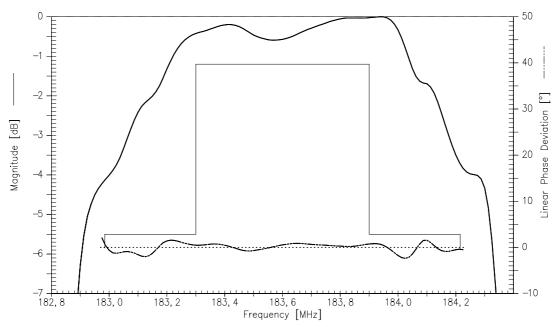




Normalized transfer function (measurement):



Normalized transfer function (measurement, passband):



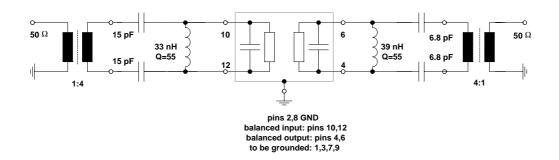
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| SAW Components Low-Loss Filter for Mobile Communication | | B4955 | | |
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Test matching network

(Element values depend on pcb layout)



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