

SAW Components

Data Sheet B3835

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SAW Components B3835

Low-Loss Filter for Mobile Communication

899,00 MHz

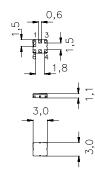
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Features

Ceramic package DCC6C

- Low-loss RF filter for iDEN mobile telephone, transmit path
- Low amplitude ripple
- No matching network required for operation at 50 Ω
- Ceramic Package for Surface Mounted Technology (SMT)



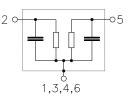
Terminals

■ Gold-plated Ni

Dimensions in mm, approx. weight 0,037g

Pin configuration

2 Input 5 Output 1, 3, 4, 6 Case ground



| Туре | Ordering code | Marking and Package | Packing | | |
|-------|-------------------|---------------------|-------------------|--|--|
| | | according to | according to | | |
| B3835 | B39901-B3835-U410 | C61157-A7-A67 | F61074-V8088-Z000 | | |

Electrostatic Sensitive Device (ESD)

Maximum ratings

| Operable temperature range | T | - 20 / + 70 | °C | |
|----------------------------|--------------|--------------------|-----|------------------------------|
| Storage temperature range | $T_{ m stg}$ | - 40 / + 85 | °C | |
| DC voltage | $V_{\rm DC}$ | 0 | V | |
| Input power max. | P_{IN} | 7 | dBm | source impedance 50 Ω |
| | | | | continuous wave |



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Characteristics

Operating temperature range: $T=25\pm2^{\circ}\mathrm{C}$ Terminating source impedance: $Z_{\mathrm{S}}=50~\Omega$ Terminating load impedance: $Z_{\mathrm{L}}=50~\Omega$

| | | min. | typ. | max. | |
|-------------------------------|-----------------------|------|--------|------|-----|
| Center frequency | f _c | _ | 899,00 | _ | MHz |
| Maximum insertion attenuation | α_{max} | | | | |
| 896,000 902,000 MH | | _ | 2,4 | 3,0 | dB |
| Amplitude ripple (p-p) | | | | | |
| 896,000 902,000 MH | Z | _ | 0,5 | 1,0 | dB |
| Group delay ripple (p-p) | | | | | |
| 896,000 902,000 MH | Z | _ | 10 | 50 | ns |
| Attenuation | α_{min} | | | | |
| 851,000 870,000 MH | Z | 42 | 48 | _ | dB |
| 935,000 940,000 MH | Z | 43 | 46 | _ | dB |
| 1050,650 1055,650MH | lz | 42 | 54 | _ | dB |
| 1205,300 1210,300MH | lz | 40 | 50 | _ | dB |
| 1359,9501364,950MH | Z | 35 | 46 | _ | dB |
| 1792,0001802,000 MH | Z | 25 | 42 | _ | dB |
| 1802,0003000,000 MH | Z | 15 | 36 | _ | dB |
| Input return loss | | | | | |
| 896,000 902,000 MH | Z | 10 | 16 | _ | dB |
| Output return loss | | | | | |
| 896,000 902,000 MH | Z | 10 | 15 | _ | dB |



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Characteristics

 $T = -20 \text{ to } +70^{\circ}\text{C}$ Operating temperature range:

 $\begin{array}{ll} Z_{\rm S} &= 50~\Omega \\ Z_{\rm L} &= 50~\Omega \end{array}$ Terminating source impedance: Terminating load impedance:

| | | min. | typ. | max. | |
|-------------------------------|-----------------------|------|--------|------|-----|
| Center frequency | f _c | _ | 899,00 | _ | MHz |
| Maximum insertion attenuation | | | | | |
| 896,000 902,000 MHz | α_{max} | _ | 2,7 | 3,7 | dB |
| Amplitude ripple (p-p) | | | | | |
| 896,000 902,000 MHz | | _ | 0,8 | 1,2 | dB |
| Group delay ripple (p-p) | Δτ | | | | |
| 896,000 902,000 MHz | | _ | 10 | 50 | ns |
| Attenuation | α_{min} | | | | |
| 851,000 870,000 MHz | | 42 | 46 | _ | dB |
| 935,000 940,000 MHz | | 43 | 46 | _ | dB |
| 1050,650 1055,650MHz | | 42 | 54 | _ | dB |
| 1205,300 1210,300MHz | | 40 | 50 | _ | dB |
| 1359,9501364,950MHz | | 35 | 46 | _ | dB |
| 1792,0001802,000 MHz | | 25 | 42 | _ | dB |
| 1802,0003000,000 MHz | | 15 | 36 | _ | dB |
| Input return loss | | | | | |
| 896,000 902,000 MHz | | 10 | 16 | _ | dB |
| Output return loss | | | | | |
| 896,000 902,000 MHz | | 10 | 15 | _ | dB |



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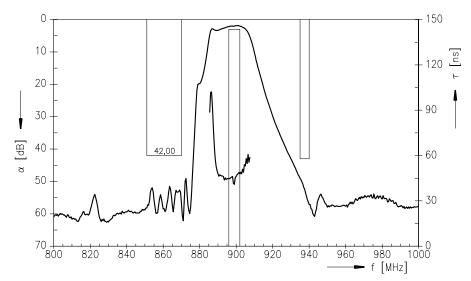
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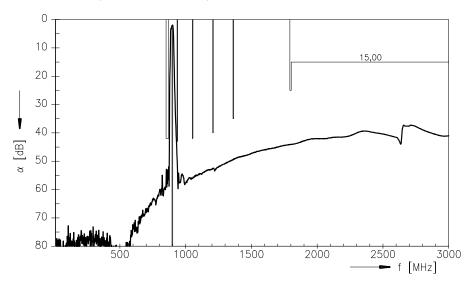
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Transfer function (25+/-2 °C)



Transfer function (25+/-2 °C, Wideband)





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