捷多邦,专业PCB打样工厂,24小时加急出货

查询B39881-B7701-K910供应商

SAW Components

EPCOS

Data Sheet B7701, Pb Free

Data Sheet

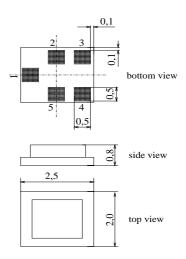
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| SAW Components | | B7701 |
|-----------------------|---------------------|-----------|
| Low-Loss Filter for M | obile Communication | 881,5 MHz |
| Data Sheet | SMD | |

Features

- Low-loss RF filter for mobile telephone AMPS system, receive path
- Low amplitude ripple
- Usable passband 25 MHz
- Unbalanced to balanced operation
- Impedance transformation from 50 Ω to 200 Ω
- Suitable for GPRS class 1 to 12
- Package for Surface Mounted Technology (SMT)
- Pb-Free





Dimensions in mm, approx. weight 0,015g

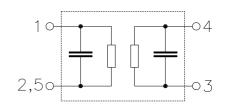
Terminals

Pin configuration

| 1 | Input |
|---|-------|
| | |

| 3, 4 | Balanced output |
|------|-----------------|
| •, • | |

2, 5 Ground, to be grounded



| Туре | Ordering code | Marking and Package according to | Packing according to |
|-------|-------------------|----------------------------------|-------------------------|
| B7701 | B39881-B7701-K910 | C61157-A7-A139 | F61074-V8189-Z000 |

Electrostatic Sensitive Device (ESD)

Maximum ratings

| Operable temperature range | Т | - 30 / + 85 | °C | |
|----------------------------|-------------------------------|-------------|-----|---------------------------|
| Storage temperature range | T _{stg} | – 40 / + 85 | °C | |
| DC voltage | V _{DC} | 5 | V | |
| ESD voltage | V [*] _{ESD} | 100* | V | Machine Model, 10 pulses |
| Input power at | PIN | 15 | dBm | peak power of GSM signal, |
| GSM850, GSM900 | | | | duty cycle 4:8 |
| GSM1800 and GSM1900 | | | | |
| Tx bands | | | | |

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* - acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses

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| SAW Components | | | | | | B7701 |
|---|----------------|-------------------------------|--------------|--------------|------|----------|
| Low-Loss Filter for Mobile Communication | | | | | | ,5 MHz |
| Data Sheet | SM | | | | | |
| Characteristics | | | | | | |
| Operating temperature range: Terminating source impedance: Terminating load impedance: | Z _S | = +25 °C = 50 Ω = 200 Ω | | | | |
| | | 1 | min. | typ. | max. | |
| Center frequency | | f _C | _ | 881,5 | | MHz |
| Maximum insertion attenuation | | α_{max} | | | | |
| 869,0 894 | 4,0 MHz | | _ | 2,3 | 2,6 | dB |
| Amplitude ripple (p-p) | | Δα | | | 10 | |
| 869,0 894 | 1,0 MHz | | _ | 0,6 | 1,0 | dB |
| VSWR 869,0 894 | 1,0 MHz | | _ | 1,8 | 2,0 | |
| | | | | 1,0 | 2,0 | |
| Output phase balance $(\phi(S_{31})-\phi(S_{32})-\phi($ | | | 10.0 | 0 | 40.0 | |
| 869,0 894 | 4,0 MHz | | -10,0 | 0 | 10,0 | degree |
| Output amplitude balance (S_{31}/S_{32}) | | | 4.0 | | 10 | |
| 869,0 894 | 4,0 MHz | | -1,0 | 0 | 1,0 | dB |
| Attenuation | | α | | | | |
| 0,0 824 | | | 50,0 | 60,0 | - | dB |
| 824,0 849 | | | 35,0 | 40,0 | - | dB |
| 914,0 924 | | | 25,0 | 28,0 | - | dB |
| 924,0 970 | | | 30,0 | 36,0 | - | dB |
| 970,03000 3000,06000 | | | 50,0 45,0 | 70,0 60,0 | _ | dB dB |
| Tx band suppression | | α | | | | |
| 824,0 849 | 9,0 MHz | | 35,0 | 40,0 | | dB |

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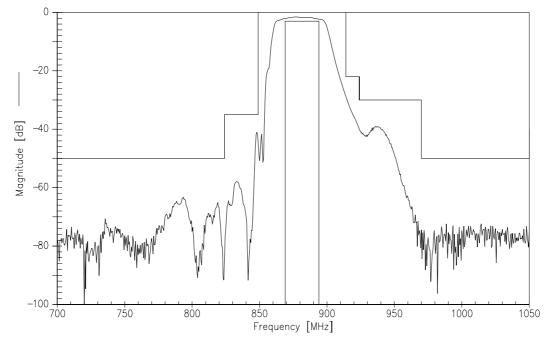
| SAW Components | | | | | | B7701 |
|--|-------------------------|-------------------------------|---------------|-------|------|--------|
| Low-Loss Filter for Mobile Commun | ication | 1 | | | 881 | ,5 MHz |
| Data Sheet | =M | | | | | |
| Characteristics | | | | | | |
| Operating temperature range: Terminating source impedance: Terminating load impedance: | <i>Z</i> _S = | = -30 tc = 50 Ω = 200 Ω | o +85 °C 2 | | | |
| | | | min. | typ. | max. | |
| Center frequency | | f _C | — | 881,5 | — | MHz |
| Maximum insertion attenuation | | α _{max} | | | | |
| 869,0 894,0 | MHz | | — | 2,6 | 3,0 | dB |
| Amplitude ripple (p-p) | | Δα | | | | |
| 869,0 894,0 | MHz | | — | 1,0 | 1,4 | dB |
| VSWR | | | | | | |
| 869,0 894,0 | MHz | | _ | 1,8 | 2,0 | |
| Output phase balance ($\phi(S_{31})-\phi(S_{32})+180$ | | | | | | |
| 869,0 894,0 | MHz | | -10,0 | 0 | 10,0 | degree |
| Output amplitude balance ($ S_{31}/S_{32} $) | | | | | | |
| 869,0 894,0 | MHz | | -1,0 | 0 | 1,0 | dB |
| Attenuation | | α | | | | |
| 0,0 824,0 | MHz | | 50,0 | 60,0 | _ | dB |
| 824,0 849,0 | MHz | | 35,0 | 40,0 | — | dB |
| 914,0 924,0 | MHz | | 22,0 | 26,0 | — | dB |
| 924,0 970,0 | MHz | | 30,0 | 36,0 | — | dB |
| 970,03000,0 | MHz | | 50,0 | 70,0 | — | dB |
| 3000,06000,0 | MHz | | 45,0 | 60,0 | — | dB |
| Tx band suppression | | α | | | | |
| 824,0 849,0 | MHz | | 35,0 | 40,0 | — | dB |

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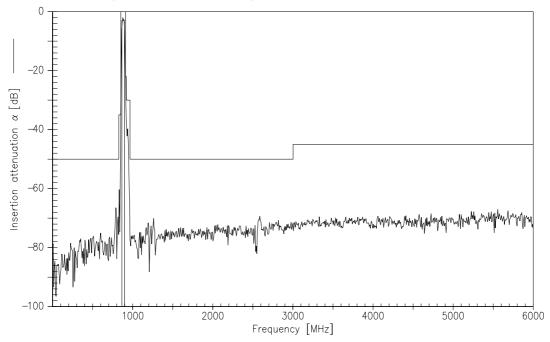
| SAW Components | | | | | | B7701 |
|--|-------------------------|---------------------------------|--------|-------|------|--------|
| Low-Loss Filter for Mobile Communication 881,5 MH: | | | | | | |
| Data Sheet | SM | | | | | |
| Characteristics | | | | | | |
| Operating temperature range: Terminating source impedance: Terminating load impedance: | <i>Z</i> _S = | = -40 to + = 50 Ω = 200 Ω | +85 °C | | | |
| | | | min. | typ. | max. | |
| Center frequency | 1 | f _C | _ | 881,5 | | MHz |
| Maximum insertion attenuation | (| α _{max} | | | | |
| 869,0 894,0 | MHz | | — | 2,6 | 3,1 | dB |
| Amplitude ripple (p-p) | 2 | Δα | | | | |
| 869,0 894,0 | MHz | | — | 1,0 | 1,5 | dB |
| VSWR | | | | | | |
| 869,0 894,0 | MHz | | | 1,8 | 2,2 | |
| Output phase balance ($\phi(S_{31})-\phi(S_{32})+180$ | | | | _ | | |
| 869,0 894,0 | MHz | | -10,0 | 0 | 10,0 | degree |
| Output amplitude balance ($ S_{31}/S_{32} $) | | | | | | |
| 869,0 894,0 | MHz | | -1,0 | 0 | 1,0 | dB |
| Attenuation | (| α | | | | |
| 0,0 824,0 | MHz | | 50,0 | 60,0 | — | dB |
| 824,0 849,0 | MHz | | 35,0 | 40,0 | — | dB |
| 914,0 924,0 | MHz | | 22,0 | 26,0 | — | dB |
| 924,0 970,0 | MHz | | 30,0 | 36,0 | _ | dB |
| 970,03000,0 | MHz | | 50,0 | 70,0 | — | dB |
| 3000,06000,0 | MHz | | 45,0 | 60,0 | — | dB |
| Tx band suppression | (| α | | | | |
| 824,0 849,0 | MHz | | 35,0 | 40,0 | — | dB |

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|--|-----|-----------|--|--|
| SAW Components | | B7701 | | |
| Low-Loss Filter for Mobile Communication | | 881,5 MHz | | |
| Data Sheet | =md | | | |

Transfer function (narrowband measurement)



Transfer function (wideband measurement)

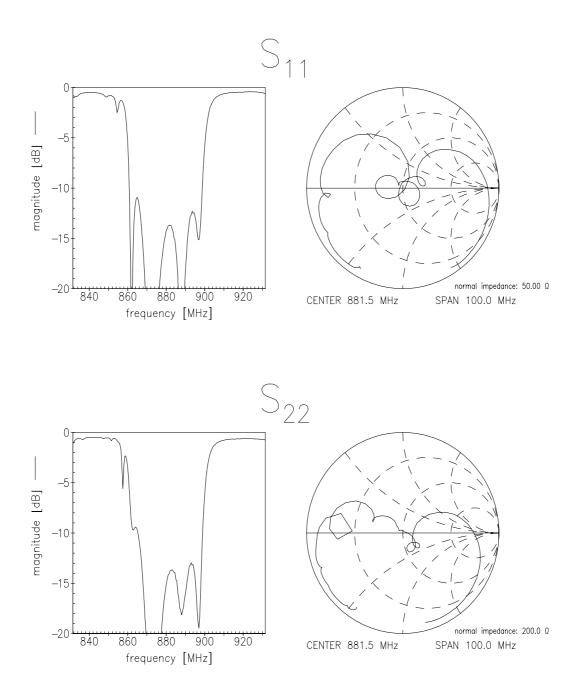


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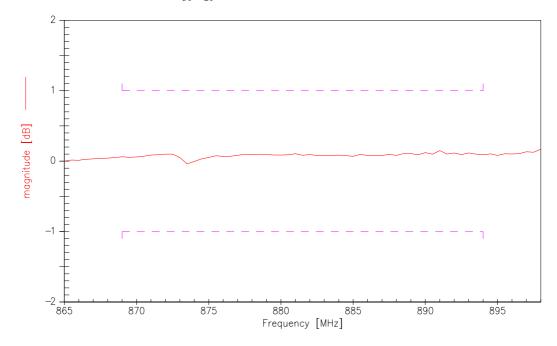
| SAW Components Low-Loss Filter for Mobile Communication | | B7701 881,5 MHz |
|---|--|--------------------|
| | | |

Reflection functions (measurement)

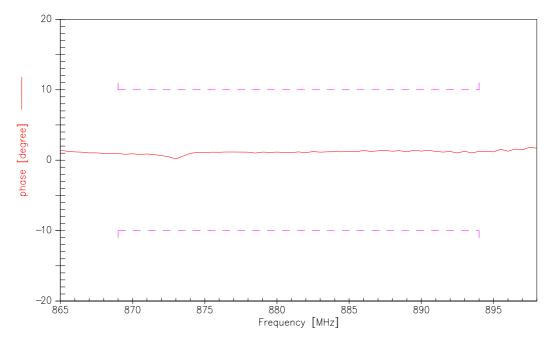


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| SAW Components | | B7701 | | |
| Low-Loss Filter for Mobile Communication | | 881,5 MHz | | |
| Data Sheet | | | | |

 $\textbf{Output amplitude balance} ~(|\textbf{S}_{31}/\textbf{S}_{21}|; \textit{measurement})$



Output phase balance $(\phi(S_{31})-\phi(S_{21})+180^{\circ}; \text{ measurement})$



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|--|-----|-----------|--|--|
| SAW Components | | B7701 | | |
| Low-Loss Filter for Mobile Communication | | 881,5 MHz | | |
| Data Sheet | SMD | | | |

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