



SAW filters for mobile communications

Series/Type: **B7754**

The following products presented in this data sheet are being withdrawn.

| Ordering Code | Substitute Product | Date of Withdrawal | Deadline Last Orders | Last Shipments |
|-----------------|--------------------|--------------------|----------------------|----------------|
| B39202B7754C810 | B39202B9031E910 | 2008-03-14 | 2008-08-31 | 2008-10-15 |

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SAW Components

B7754

Low-Loss Filter for Mobile Communication

1950,0 MHz

Data Sheet



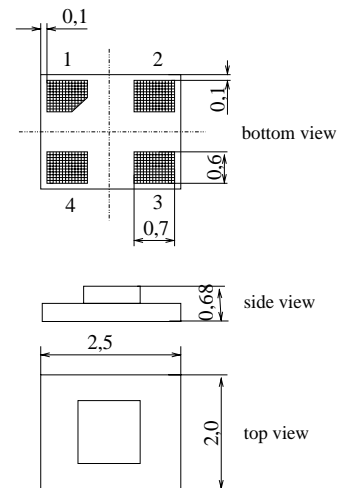
Chipsized SAW package DCS4D

Features

- Low-loss RF filter for W-CDMA mobile telephone system, transmit path
- High stopband attenuation
- Usable passband 60 MHz
- Unbalanced/unbalanced operation
- Package size: 2 mm x 2.5 mm (4 pin, diagonal pinning)

Terminals

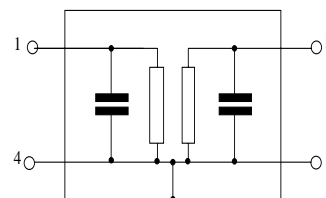
- Ni, gold-plated



Dimensions in mm, approx weight 0,012g

Pin configuration

- 1 Input
- 3 Output
- 2,4 Ground



| Type | Ordering code | Marking and Package according to | Packing according to |
|-------|-------------------|----------------------------------|----------------------|
| B7754 | B39202-B7754-C810 | C61157-A7-A118 | F61074-V8153-Z000 |

Electrostatic Sensitive Device (ESD)

Maximum ratings

| | | | | |
|----------------------------|-----------|-------------|-----|------------------------------|
| Operable temperature range | T | - 20 / + 85 | °C | source impedance 50 Ω |
| Storage temperature range | T_{stg} | - 40 / + 85 | °C | |
| DC voltage | V_{DC} | 3 | V | |
| Source power | P_s | 10 | dBm | |



Data Sheet



Characteristics

Operating temperature range: $T = +25\text{ °C} \pm 2\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

| | | min. | typ. | max. | |
|--------------------------------------|-----------------------|------|--------|------|-----|
| Center frequency | f_C | — | 1950,0 | — | MHz |
| Maximum insertion attenuation | α_{max} | — | 2,2 | 2,5 | dB |
| | 1920,0 ... 1980,0 MHz | | | | |
| Ripple | p-p | — | 1,0 | 1,2 | dB |
| | 1920,0 ... 1980,0 MHz | | | | |
| Input VSWR | | — | 1,9 | 2,1 | |
| | 1920,0 ... 1980,0 MHz | | | | |
| Output VSWR | | — | 1,9 | 2,1 | |
| | 1920,0 ... 1980,0 MHz | | | | |
| Attenuation | α | | | | |
| | 0,0 ... 1670,0 MHz | 26 | 28 | — | dB |
| | 1670,0 ... 1720,0 MHz | 29 | 31 | — | dB |
| | 1720,0 ... 1750,0 MHz | 30 | 32 | — | dB |
| | 1750,0 ... 1880,0 MHz | 31 | 33 | — | dB |
| | 2025,0 ... 2050,0 MHz | 35 | 45 | — | dB |
| | 2110,0 ... 2170,0 MHz | 34 | 36 | — | dB |
| | 2300,0 ... 2490,0 MHz | 34 | 36 | — | dB |
| | 2490,0 ... 2740,0 MHz | 35 | 38 | — | dB |
| | 2740,0 ... 3960,0 MHz | 30 | 33 | — | dB |
| | 3960,0 ... 6000,0 MHz | 15 | 21 | — | dB |



Data Sheet



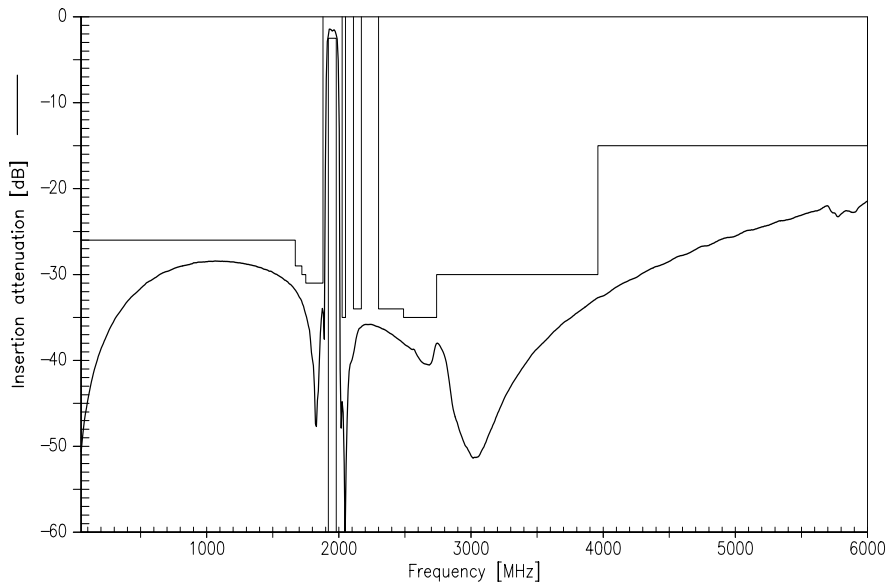
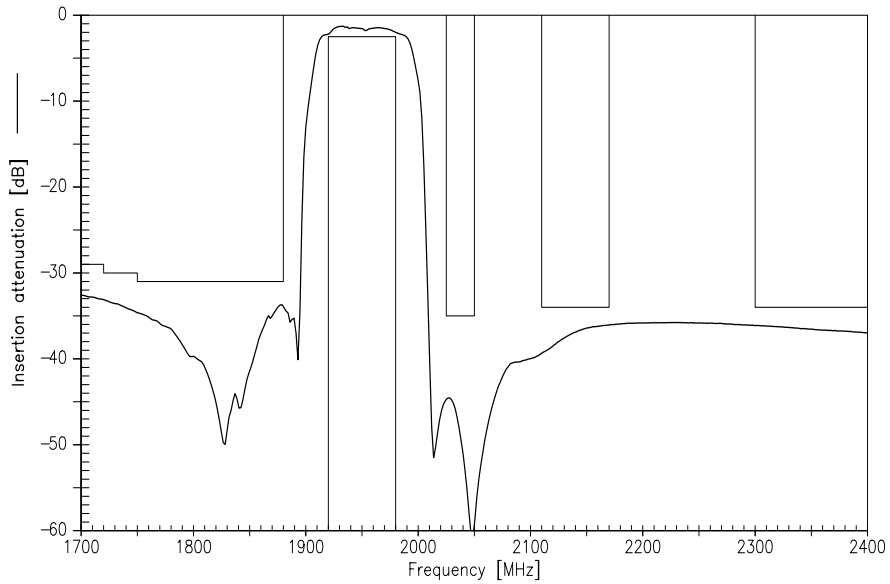
Characteristics

Operating temperature range: $T = -20$ to $+85$ °C
 Terminating source impedance: $Z_S = 50 \Omega$
 Terminating load impedance: $Z_L = 50 \Omega$

| | | min. | typ. | max. | |
|--------------------------------------|-----------------------|------|--------|------|-----|
| Center frequency | f_C | — | 1950,0 | — | MHz |
| Maximum insertion attenuation | α_{max} | — | 2,4 | 2,8 | dB |
| | 1920,0 ... 1980,0 MHz | | | | |
| Ripple | p-p | — | 1,0 | 1,6 | dB |
| | 1920,0 ... 1980,0 MHz | | | | |
| Input VSWR | | — | 2,0 | 2,2 | |
| | 1920,0 ... 1980,0 MHz | | | | |
| Output VSWR | | — | 2,0 | 2,2 | |
| | 1920,0 ... 1980,0 MHz | | | | |
| Attenuation | α | | | | |
| | 0,0 ... 1670,0 MHz | 26 | 28 | — | dB |
| | 1670,0 ... 1720,0 MHz | 29 | 31 | — | dB |
| | 1720,0 ... 1750,0 MHz | 30 | 32 | — | dB |
| | 1750,0 ... 1880,0 MHz | 31 | 33 | — | dB |
| | 2025,0 ... 2050,0 MHz | 35 | 45 | — | dB |
| | 2110,0 ... 2170,0 MHz | 34 | 36 | — | dB |
| | 2300,0 ... 2490,0 MHz | 34 | 36 | — | dB |
| | 2490,0 ... 2740,0 MHz | 35 | 38 | — | dB |
| | 2740,0 ... 3960,0 MHz | 30 | 33 | — | dB |
| | 3960,0 ... 6000,0 MHz | 15 | 21 | — | dB |



Transfer function (spec for 25°C ± 2 °C):





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1950,0 MHz

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