



SAW Components

SAW filter

Short range devices

| | |
|-----------------------|------------------------|
| Series/type: | B3710 |
| Ordering code: | B39431B3710U410 |
| Date: | March 16, 2007 |
| Version: | 2.0 |



SAW Components

B3710

SAW filter

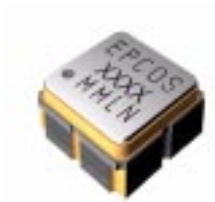
433.92 MHz

Data sheet



Application

- Low-loss RF filter for remote control receivers
- No matching network required for operation at 50Ω



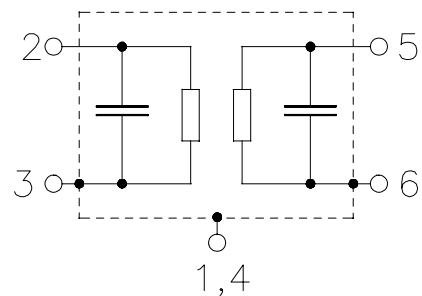
Features

- Package size 3.0 x 3.0 x 1.1 mm³
- Package code DCC6C
- RoHS compatible
- Approximate weight 0.037 g
- Package for **Surface Mount Technology (SMT)**
- Ni, gold-plated terminals
- Lead free soldering compatible with J - STD20C
- Passivation layer Elpas
- AEC-Q200 qualified component family
- **Electrostatic Sensitive Device (ESD)**



Pin configuration

- 2 Input
- 5 Output
- 1,3,4,6 Ground (case)



Please read *cautions and warnings and important notes* at the end of this document.



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Characteristics

Temperature range for specification: $T = -40\text{ °C to }+85\text{ °C}$
 Terminating source impedance: $Z_S = 50\Omega$
 Terminating load impedance: $Z_L = 50\Omega$

| | | min. | typ. @ 25 °C | max. | |
|---|----------------|------|-----------------|------|-----|
| Center frequency | f_C | — | 433.92 | — | MHz |
| Maximum insertion attenuation | α_{max} | — | 2.0 | 2.7 | dB |
| 433.00 ... 434.71 MHz | | | | | |
| Amplitude ripple (p-p) | $\Delta\alpha$ | — | 0.5 | 1.3 | dB |
| 433.00 ... 434.71 MHz | | | | | |
| Relative attenuation (relative to α_{min}) | α_{rel} | | | | dB |
| 10.00 ... 380.00 MHz | | 55 | 60 | — | |
| 380.00 ... 413.50 MHz | | 49 | 53 | — | |
| 413.50 ... 424.00 MHz | | 40 | 48 | — | |
| 443.75 ... 454.00 MHz | | 25 | 33 | — | |
| 454.00 ... 470.00 MHz | | 35 | 44 | — | |
| 470.00 ... 650.00 MHz | | 48 | 55 | — | |
| 650.00 ... 1000.00 MHz | | 40 | 50 | — | |

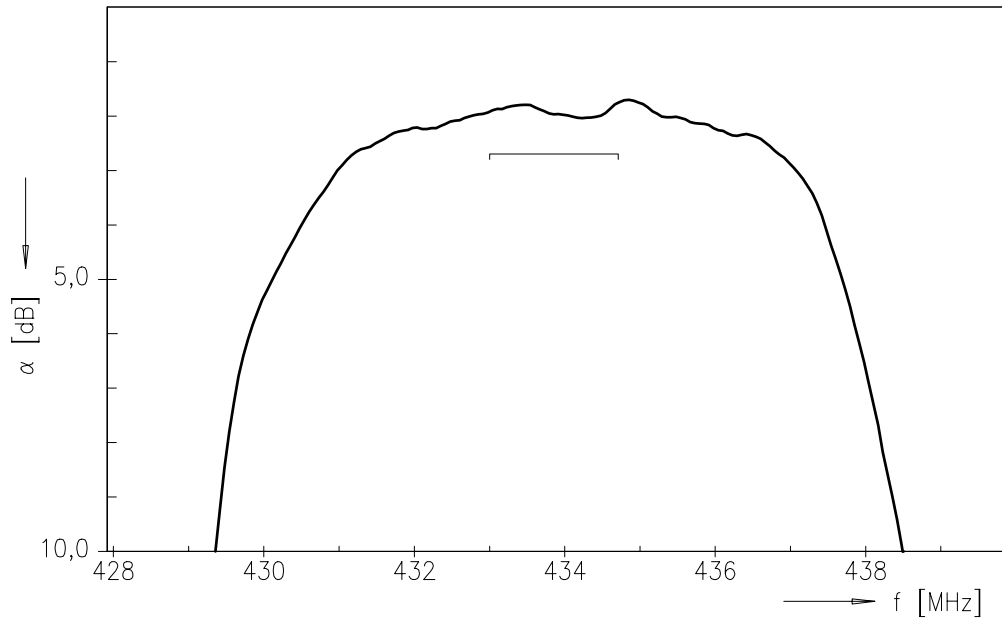
Maximum ratings

| | | | | |
|----------------------------|------------------|----------|-----|-----------------------|
| Operable temperature range | T | -45/+120 | °C | |
| Storage temperature range | T _{stg} | -45/+120 | °C | |
| DC voltage | V _{DC} | 0 | V | |
| Source power | P _S | 10 | dBm | source impedance 50 Ω |

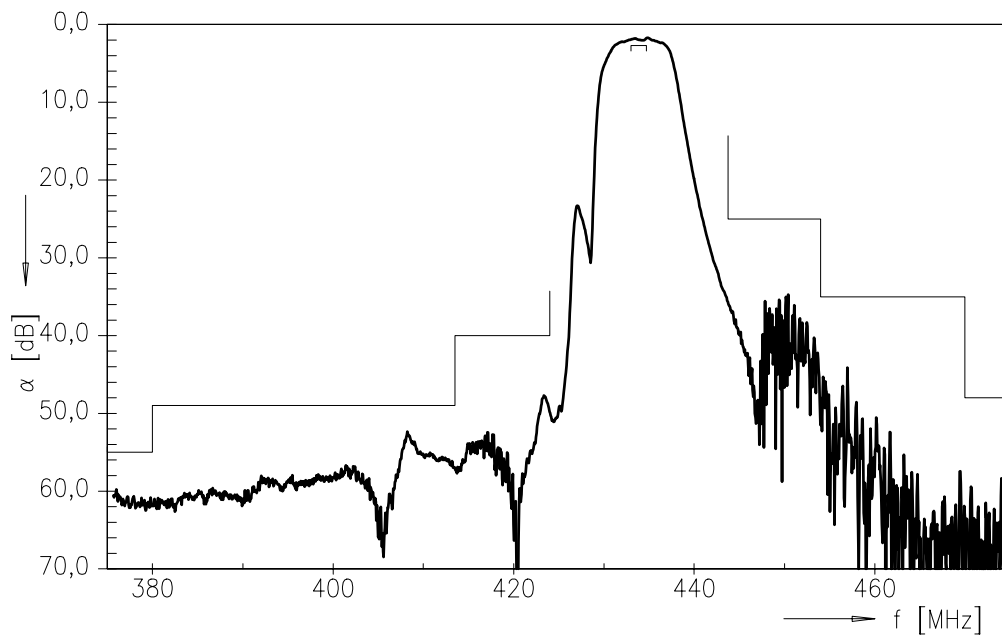
Please read *cautions and warnings and important notes* at the end of this document.



Transfer function



Transfer function (wideband)





| | |
|-----------------------|-------------------|
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References

| | |
|----------------------------|--|
| Type | B3710 |
| Ordering code | B39431B3710U410 |
| Marking and package | C61157-A7-A67 |
| Packaging | F61074-V8168-Z000 |
| Date codes | L_1126 |
| S-parameters | B3710_SB.s2p B3710_WB.s2p |
| Soldering profile | S_6001 |
| RoHS compatible | defined as compatible with the following documents: "DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. 2005/618/EC from April 18th, 2005, amending Directive 2002/95/EC of the European Parliament and of the Council for the purposes of establishing the maximum concentration values for certain hazardous substances in electrical and electronic equipment." |

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com.

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Please read *cautions and warnings and important notes* at the end of this document.



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