

SAW Components

SAW RF low loss filter Satellite BTS

Series/type: B1624

Ordering code:

Date: August 21, 2006

Version: 1.0

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SAW Components

B1624

SAW RF low loss filter

1210.00 MHz

Data Sheet



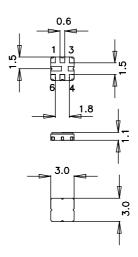
Application

- Low loss RF filter for satellite BTS
- Usable passband 40.0 MHz
- Low insertion attenuation
- Low amplitude ripple
- Low group delay ripple
- Balanced to balanced operation
- No matching network required for operation at 150 Ω



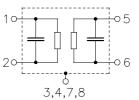
Features

- Package size 3.0 x 3.0 x 1.1 mm³
- Maximum height of 1.225mm
- Package code QCC8D
- RoHS compatible
- Approximate weight 0.037 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)



Pin configuration

- 1 Input
- 2 Input
- 5 Output
- 6 Output
- 3,7 To be grounded
- 4,8 Case ground, to be grounded





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Characteristics

Operating temperature range: $T = -20 \,^{\circ}\text{C}$ to $+80 \,^{\circ}\text{C}$

Terminating source impedance: $Z_S = 150 \Omega$ Terminating load impedance: $Z_L = 150 \Omega$

| | | | typ. | | |
|--|----------------|------|---------|------|-----|
| | | min. | @ 25 °C | max. | |
| Nominal frequency | f _N | | 1210.00 | — | MHz |
| Maximum insertion attenuation | α_{max} | | | | |
| 1190.00 1230.00 MHz | | | 3.4 | 5.0 | dB |
| Pass bandwidth | | | | | |
| $\alpha_{rel} \le 1.5 \text{ dB}$ | $B_{1.5 dB}$ | _ | 62.0 | _ | MHz |
| Amplitude ripple (p-p) | Δα | | | | |
| 1190.00 1230.00 MHz | | _ | 1.6 | 2.3 | dB |
| Group delay ripple (p-p) | Δτ | | | | |
| 1190.00 1230.00 MHz | | | 14.0 | 22.0 | ns |
| Deviation from linear phase (rms) | | | | | |
| in any 30 MHz band | | | | | |
| 1190.00 1230.00 MHz | | _ | 2.7 | 4.0 | ۰ |
| Relative attenuation (relative to α_{max}) | α | | | | |
| 50.00 1128.00 MHz | | 44.0 | 52.0 | _ | dB |
| 1292.00 1310.00 MHz | | 40.0 | 46.0 | _ | dB |
| 1310.00 2000.00 MHz | | 46.0 | _ | _ | dB |
| 2000.00 6000.00 MHz | | 15.0 | _ | _ | dB |

Maximum ratings

| Operable temperature range | Т | -40/+85 | °C | |
|----------------------------|----------|---------|-----|-------------------------------|
| Storage temperature range | Tstg | -40/+85 | °C | |
| DC voltage | V_{DC} | 0 | V | |
| Source power | P_S | 0 | dBm | source impedance 150 Ω |

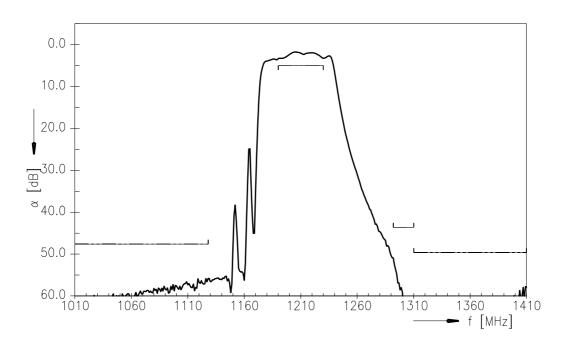


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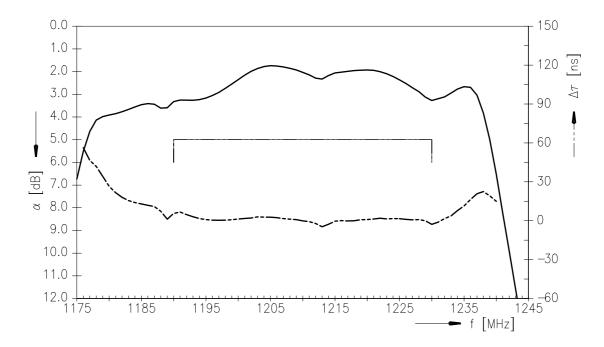
Data Sheet



Transfer function



Transfer function (passband)





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Data Sheet



References

| Туре | B1624 |
|---------------------|---|
| Ordering code | |
| Marking and package | C61157-A7-A72 |
| Packaging | F61074-V8168-Z000 |
| Date codes | L_1126 |
| S-parameters | B1624_NB.s4p |
| 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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