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RF360 Europe GmbH

A Qualcomm – TDK Joint Venture

SAW Components

SAW filter

WiMax

Series/type:B5094Ordering code:B39811B5094U410

Date: Version: January 09, 2009 2.0

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SAW Components

SAW filter

Series/type: Ordering code:

Date: Version: B5094 B39811B5094U410

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SAW ComponentsB5094SAW filter810.00 MHzData sheetImmediate

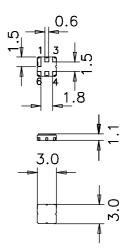
Application

- Low-loss IF filter for WiMax systems
- Low amplitude ripple
- No matching required for operation at 50 Ω
- Usable passband 20 MHz



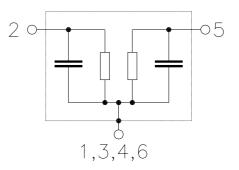
Features

- 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
- Electrostatic Sensitive Device (ESD)



Pin configuration

- 2 Input unbalanced
- 5 Output unbalanced
- 1,3,4,6 Case grounded



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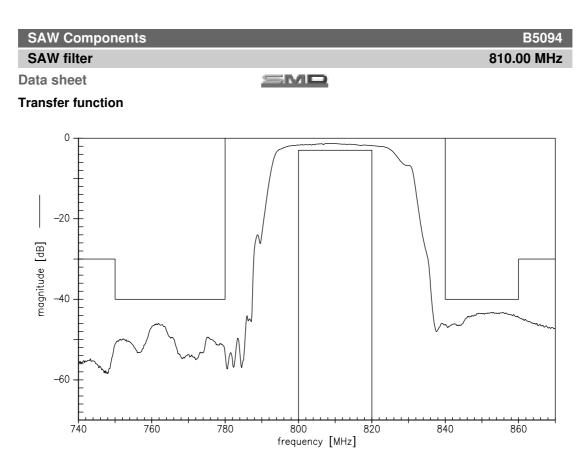
☆TDK

| SAW Components | _ | _ | _ | B5094 | | | | |
|--|----------|-----------------|------|------------|--|--|--|--|
| SAW components SAW filter | _ | _ | _ | 810.00 MHz | | | | |
| Data sheet | | | | | | | | |
| Characteristics | | | | | | | | |
| Temperature range for specification:T= -40 °C to $+85$ °CTerminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 50 \Omega$ | | | | | | | | |
| | min. | typ. @ 25 °C | max. | | | | | |
| Center frequency f _C | - | 810.0 | _ | MHz | | | | |
| Maximum insertion attenuation α _{max} 800.0 820.0 MHz | _ | 2.1 | 3.0 | dB | | | | |
| Amplitude ripple (p-p) Δα 800.0 820.0 MHz | _ | 0.6 | 1.0 | dB | | | | |
| Return loss 800.0 820.0 MHz | 10.0 | 12.0 | _ | dB | | | | |
| Attenuation a | | | | | | | | |
| 300.0 750.0 MHz | 30 | 55 | — | dB | | | | |
| 750.0 776.0 MHz 776.0 780.0 MHz | 40 40 | 45 45 | _ | dB dB | | | | |
| 840.0 860.0 MHz | 40 | 43 | _ | dB | | | | |
| 860.0 2000.0 MHz | 30 | 40 | — | dB | | | | |

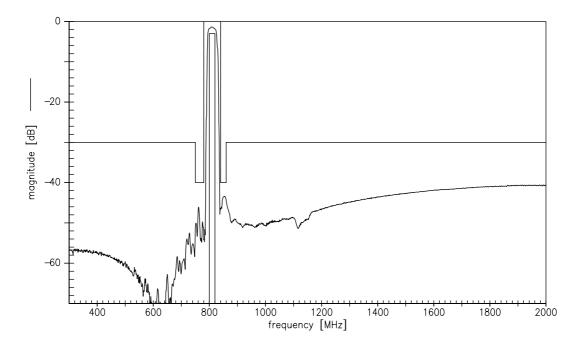
⇔TDK

| SAW Components | | | | B5094 |
|----------------------------|------------------|-------------------|-----|------------------------|
| SAW filter | | | | 810.00 MHz |
| Data sheet | | =MI | | |
| Maximum ratings | | | | |
| Operable temperature range | Т | -40/+85 | °C | |
| Storage temperature range | T _{stg} | -40/+85 | °C | |
| DC voltage | V _{DC} | 0 | V | |
| ESD voltage | V _{ESD} | 100 ¹⁾ | V | machine model, 1 pulse |
| Input power at | | | | |
| 800.0 820.0 | P _{IN} | 10 | dBm | CW |

¹⁾ acc. to JESD22-A115A (machine model), 1 negative & 1 positive pulse.

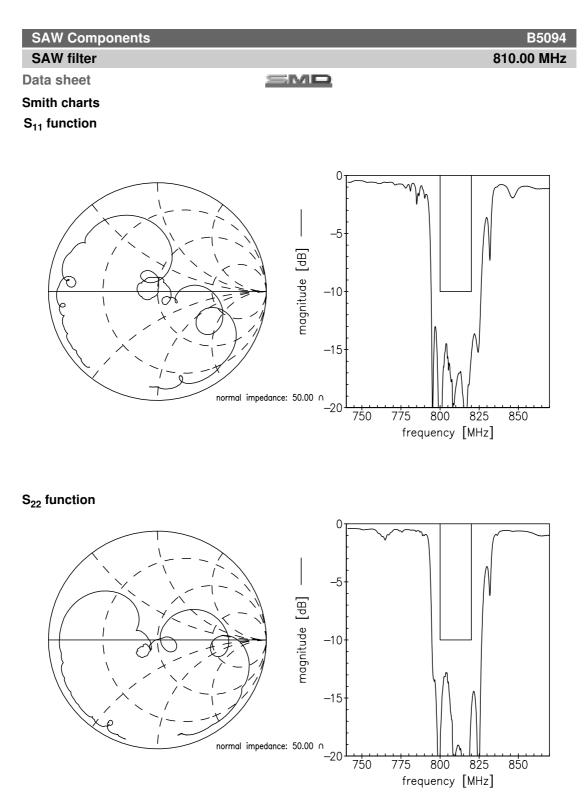


Transfer function (wideband)



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SAW Components

B5094 810.00 MHz

SAW filter

Data sheet

SMD

References

| Туре | B5094 |
|---------------------|---|
| Ordering code | B39811B5094U410 |
| Marking and package | C61157-A7-A67 |
| Packaging | F61074-V8168-Z000 |
| Date codes | L_1126 |
| S-parameters | B5094_NB.s2p B5094_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 maxi- mum concentration values for certain hazardous substances in electrical and electronic equipment." |

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