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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

January 09, 2009 2.0

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SAW ComponentsB5094SAW filter810.00 MHzData sheetImmediate

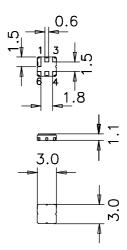
Application

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



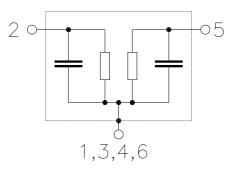
Features

- 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



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

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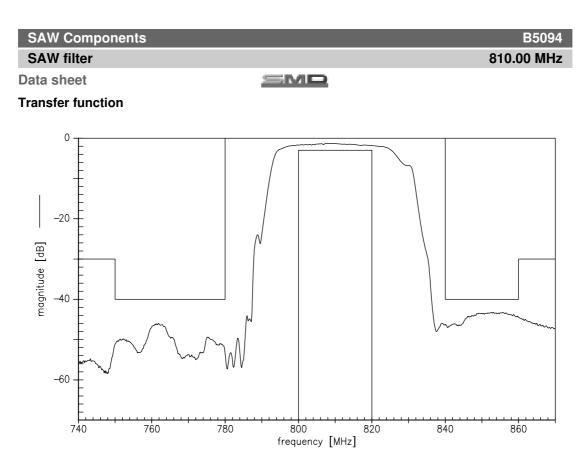
☆TDK

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				

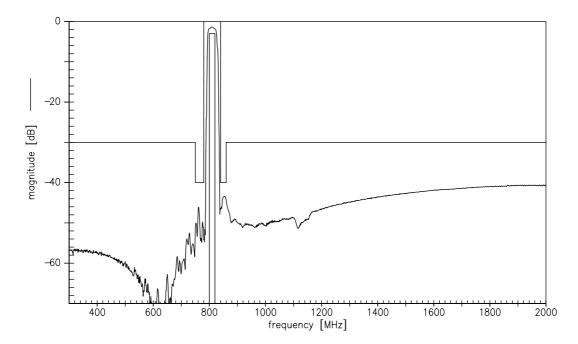
⇔TDK

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.

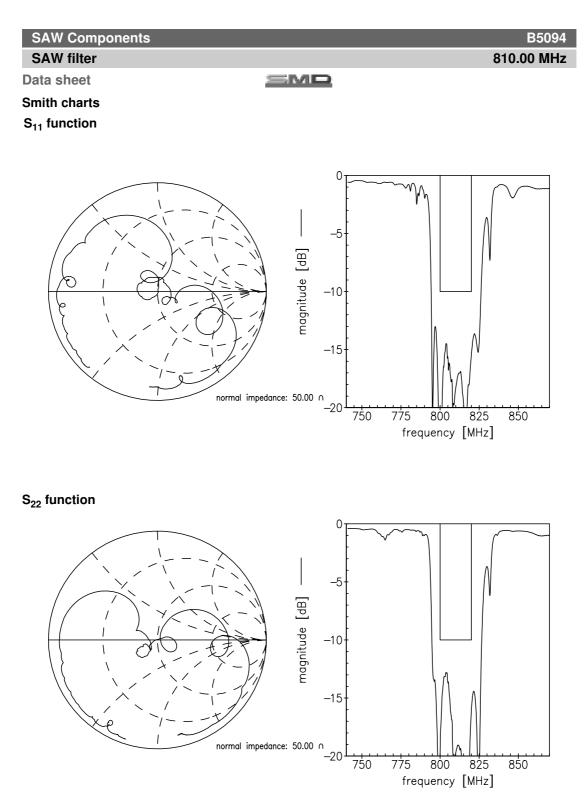


Transfer function (wideband)



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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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