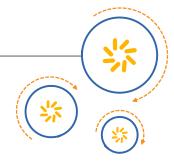


RF360 Europe GmbH

A Qualcomm - TDK Joint Venture



SAW Components

SAW RF filter

GSM 1900

Series/type: B5104

Ordering code: B39192B5104U410

Date: September 10, 2008

Version: 2.2

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SAW Components B5104
SAW RF filter 1880 MHz

Data Sheet



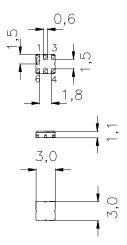
Application

- RF filter for GSM1900 base station
- Low ripple
- Small size
- \blacksquare Single ended operation on 50 Ω



Features

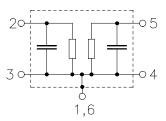
- Package size 3.0 x 3.0 x 1.1 mm³
- Package code DCC6C
- RoHS compatible
- Approx. weight 0.037 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)
- Filter surface passivated



Pin configuration

2 Input5 Output

■ 1, 3, 4, 6 To be grounded





SAW Components B5104
SAW RF filter 1880 MHz

Data Sheet

Characteristics

Temperature range for specification: T = -35 to +85 $^{\circ}$ C Terminating source impedance: $Z_{\rm S}$ = 50 Ω (unbalanced) Terminating load impedance: $Z_{\rm L}$ = 50 Ω (unbalanced)

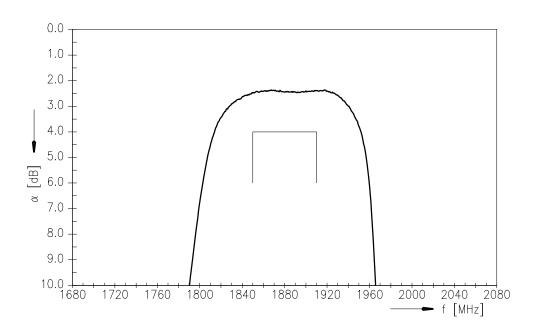
		LI35A 1)			
		min.	typ. @ 25 °C	max.	
Center frequency	f _C	_	1880	_	MHz
Minimum insertion attenuation 1850.0 1910.0 MHz	α_{min}		2.3	3.0	dB
Maximun insertion attenuation 1850.0 1910.0 MHz	α_{max}		2.6	4.0	dB
Amplitude ripple (p-p) 1850.0 1910.0 MHz	Δα	_	0.3	1.0	dB
VSWR 1850.0 1910.0 MHz		_	1.75	2.1	
Attenuation 1448.0 1508.0 MHz	α	30.0	36.0		dB
Temperature coeficient of frequency TC _f			-64		ppm/K

¹⁾ Values in columns min, typ and max indicate the development status of the current version.

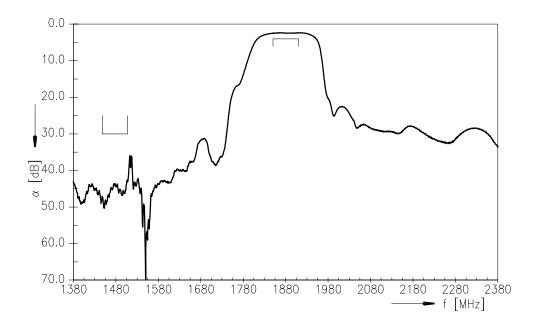




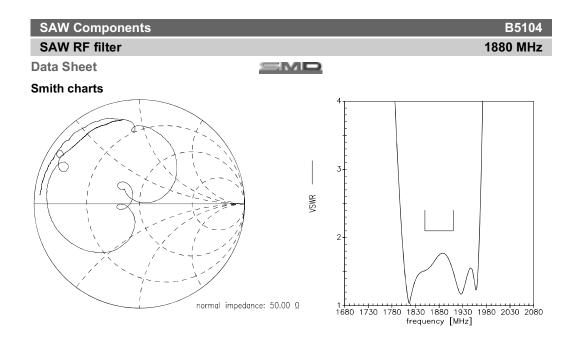
Transfer function



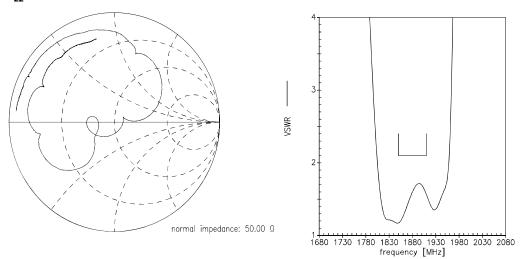
Transfer function (wideband)







S₂₂ function





SAW Components				B5104
SAW RF filter				1880 MHz
Data Sheet		\equiv MI		
Maximun ratings				
Operable temperature range	Т	-35/+85	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	0	V	
Input power	P _{in}	15	dBm	



SAW Components		B5104
SAW RF filter		1880 MHz
Data Sheet	SMD	

References

Туре	B5104
Ordering code	B39192B5104U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date code	L_1126
S-parameters	LI35A_NB.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."

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