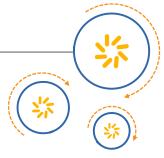


RF360 Europe GmbH

A Qualcomm - TDK Joint Venture



SAW Components

SAW IF filter

Basestation

Series/type: B5235

Ordering code: B39141B5235Z810

Date: Sep 23, 2011

Version: 2.0

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SAW Components B5235
SAW IF filter 140.0 MHz

Data Sheet



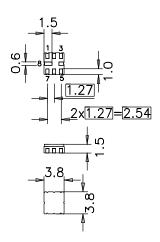
Application

- Low-loss IF filter for basestation
- Usable passband 40 MHz



Features

- Package size 3.8 x 3.8 x 1.5 mm³
- Package code QCC8B
- RoHS compatible
- Approx. weight 0.07g
- Ceramic package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)
- Filter Surface Passivated
- Moisture Sensitive Level 1



Pin configuration

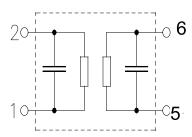
■ 1 Input

■ 2 Input ground or return

■ 5 Output

■ 6 Output ground or return

■ 3,4, 7,8 Package ground





SAW Components B5235
SAW IF filter 140.0 MHz

Data Sheet

Characteristics

Operating temperature range: $T = -40 \,^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50 \Omega$ and matching network Terminating load impedance: $Z_L = 50 \Omega$ and matching network

			min.	typ. @ 25 °C	max.	
Nominal frequency		f _N	_	140.0	_	MHz
Minimum insertion attenu (including matching network		α_{min}	_	10.8	12.5	dB
Amplitude ripple (p-p)	_N ±20 MHz	Δα	_	2.0	2.5	dB
Group delay ripple (p-p) f_{\parallel}	_N ±20 MHz	Δτ	_	77	100	ns
Absolute group delay	_N ± 20 MHz	τ	_	0.27	0.5	μs
	 1z 1z 1z 1z	$lpha_{abs}$	57.0 50.0 23.0 40.0 47.0 60.0	62.0 54.0 45.0 43.0 50.0 65.0 7.0 6.0		dB dB dB dB dB dB
Temperature coefficient o	f frequency	TC _f		-75		ppm/K

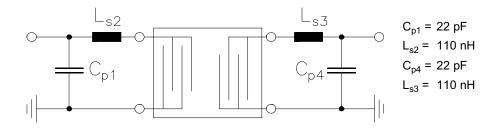


SAW Components B5235
SAW IF filter 140.0 MHz

Data Sheet



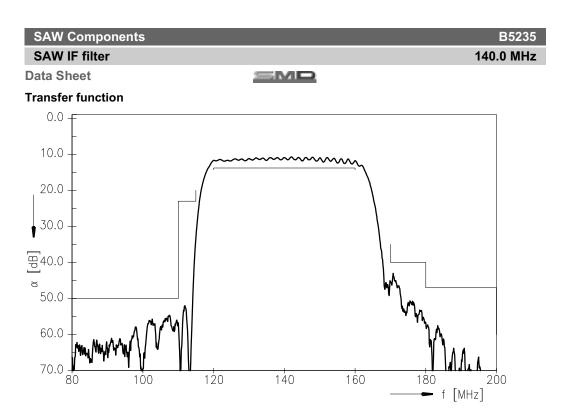
Matching network to $\ \, {\bf 50} \,\, \Omega$ single ended / ${\bf 50} \,\, \Omega$ single ended



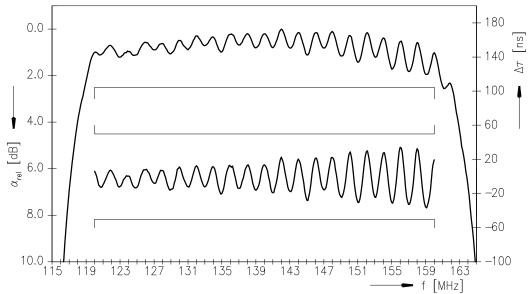
Maximum ratings

Operable temperature range	Т	-40/+85	°C
Storage temperature range	T_{stg}	-40/+85	°C
DC voltage	V _{DC}	0	V
Input power	P _{IN}	20	dBm





Transfer function (Passband)





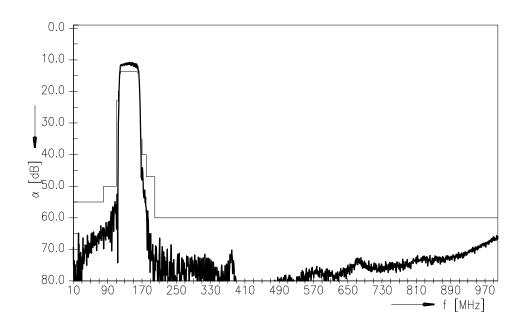
SAW Components

SAW IF filter

140.0 MHz

Data Sheet

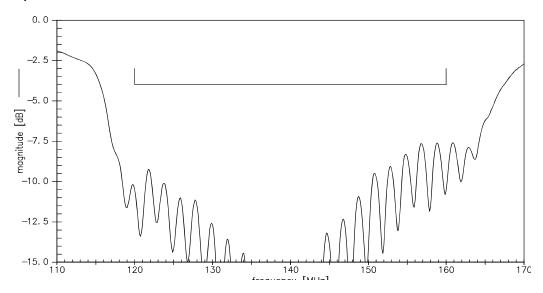
Transfer function (Wide band plot)



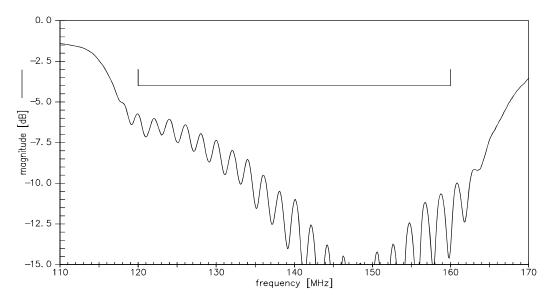




Input return loss



Output return loss





SAW Components		B5235
SAW IF filter		140.0 MHz
Data Sheet	=MD	

References

Туре	B5235
Ordering code	B39141B5235Z810
Marking and package	C61157-A7-A46
Packaging	F61074-V8229-Z000
Date codes	L_1126
S-parameters	B5235_NB.S2P, B5235_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."
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For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com.

Published by EPCOS AG Systems, Acoustics, Waves Business Group P.O. Box 80 17 09, 81617 Munich, GERMANY

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