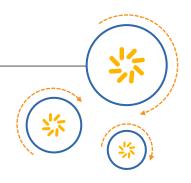


RF360 Europe GmbH

A Qualcomm - TDK Joint Venture



SAW Components

SAW RF filter

TETRA

Series/type: B5074

Ordering code: B39361-B5074-Z810

Date: Sep 26, 2007

Version: 2.0

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SAW Components B5074

SAW RF filter 365.0 MHz

Data sheet



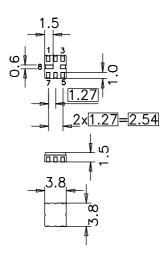
Application

- RF filter for TETRA receiver
- Usable band width 10 MHz



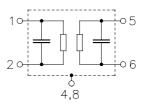
Features

- Package size 3.8 x 3.8 x 1.50 mm³
- Package code QCC8B
- RoHS compatible
- Approx. weight 0.07 g
- Ceramic package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)
- Filter surface passivated



Pin configuration

- 5 Input
- 1 Output or output balanced
- Output ground or output balanced
- 3, 6, 7 Ground4, 8 Case ground





SAW Components B5074

SAW RF filter 365.0 MHz

Data sheet

Characteristics

Operating temperature range: $T = -30 \text{ to } 70 \,^{\circ}\text{C}$

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

		min.	typ. @ 25 °C	max.	
Nominal frequency	f _N	_	365.0		MHz
Maximum insertion attenuation					
$f_N \pm 5.0 \text{ MHz}$	α_{max}	_	1.7	3.0 ¹⁾	dB
Amplitude ripple (p-p)	$\Delta \alpha$				
$f_N \pm 5.0 \text{ MHz}$		_	0.7	2.0 ²⁾	dB
VSWR					
$f_N \pm 5.0 \text{ MHz}$		_	1.5	2.0	
Attenuation	α				
0.1 MHz 81.0 MHz		27	70	_	dB
81.0 MHz 82.0 MHz		31	70	_	dB
82.0 MHz 325.8 MHz		13	55	_	dB
325.8 MHz		27	55	_	dB
325.8 MHz 355.0 MHz		10	20	_	dB
378.0 MHz 400.0 MHz		10	26	_	dB
400.0 MHz 414.0 MHz		6	50	_	dB
414.0 MHz 431.0 MHz		16	55	_	dB
431.0 MHz 452.0 MHz		27	55	_	dB
452.0 MHz 522.0 MHz		16	48	_	dB
522.0 MHz 533.0 MHz		41	48	_	dB
533.0 MHz 801.0 MHz		19	45	_	dB
801.0 MHz 1242.0 MHz		26	35	_	dB
1242.0 MHz 1636.0 MHz		28	32	_	dB
1636.0 MHz 1806.0 MHz		17	32	<u> </u>	dB
Temperature coefficient of frequency TC _f		_	- 36		ppm/K

^{1) 2.5}dB max at +15°C to +35°C 2) 1.5dB max at +15°C to +35°C



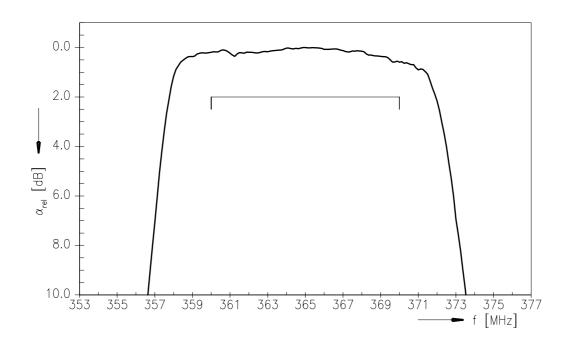
SAW Components SAW RF filter		_		B5074 365.0 MHz
Data sheet		$\equiv M$		
Maximum ratings				
Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	0	V	
ESD voltage	V _{ESD}	100 ¹⁾	V	machine model, 10 pulses
Input power	P _{IN}	15	dBm	

¹⁾ acc. to JESD22-A115A (machine model), 10 negative & 10 positive pulses.

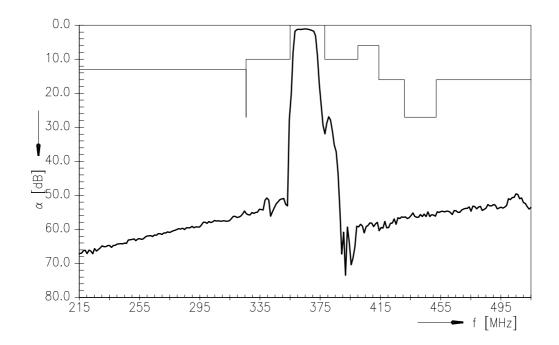




Transfer function



Transfer function (wideband)





SAW Components	B5074
SAW RF filter	365.0 MHz

Data sheet



References

Туре	B5074
Ordering code	B39361-B5074-Z810
Marking and package	C61157-A7-A46
Packaging	F61074-V8167-Z000
Date codes	L_1126
S-parameters	
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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