

SAW Components

SAW Rx filter

Series/type: Ordering code:

B5054 B39461B5054Z810

Date: Version: April 01, 2008 2.1

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SAW Components	B5054
SAW Rx filter	455.00 MHz
Data sheet	

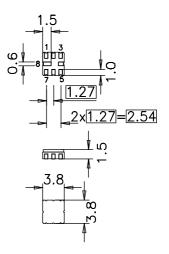
Application

- Low-loss IF filter for base station TETRA systems, receive path (Rx)
- Unbalanced to unbalanced or unbalanced to balanced opertation
- Low amplitude ripple
- No external matching required
- Usable passband 10 MHz



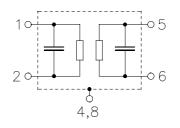
Features

- Package size 3.8 x 3.8 x 1.35 mm³
- Package code QCC8B
- RoHS compatible
- Approximate weight 0.07 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)



Pin configuration

- 5 Input
- 1 Output / Output balanced
- 2 Output ground / Output balanced
- 3,6,7 To be grounded
- 4,8 Case ground



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SAW Components						В
SAW Rx filter						455.00
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Characteristics						
Temperature range for specification: Terminating source impedance: Terminating load impedance:		T = Z _S = Z _L =	50 Ω	to +70 °C	;	
			min.	typ. @ 25 °C	max.	
Center frequency		f _C	_	455.00	_	MHz
Maximum insertion attenuation 450.0 460.0	MHz	α_{max}		2.2	3.0 ¹⁾	dB
Amplitude ripple (p-p)		Δα			0.0	u.D
450.0 460.0	MHz		—	0.9	2.02)	dB
Return Loss (VSWR)						
450.0 460.0	MHz		—	1.8	2.1	dB
Attenuation		α				
50.0 326.0	MHz	с л	27	56	_	dB
326.0 445.0	MHz		12	18	_	dB
465.0 530.0	MHz		6	14	—	dB
530.0 611.0	MHz		27	50	—	dB
	MHz		45	49	—	dB
	MHz		27	32	—	dB
623.0 1706.0	MHz					dB

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

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Maximum ratings				
U	–	40/-05	° ^	
Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V_{DC}	5	V	
ESD voltage	V_{ESD}	100 ¹⁾	V	machine model, 1 pulse
Input power at				
450.0 460.0MHz	P _{IN}	15	dBm	Continuous Wave

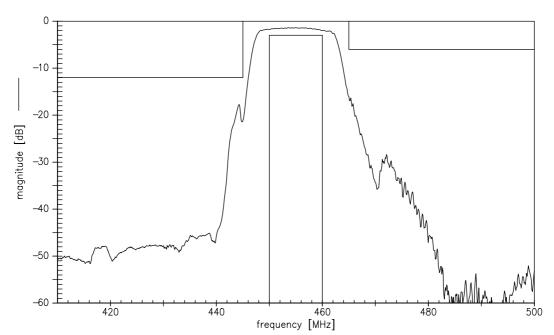
¹⁾ acc. to JESD22-A115A (machine model), 1 negative & 1 positive pulse.

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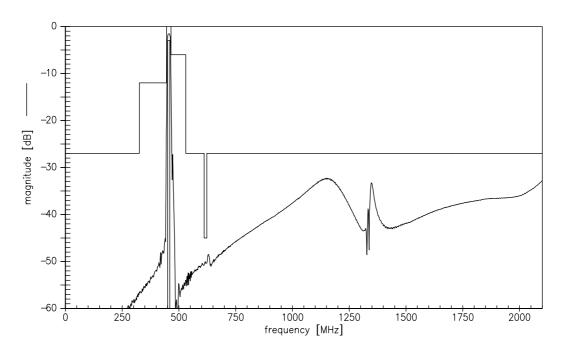
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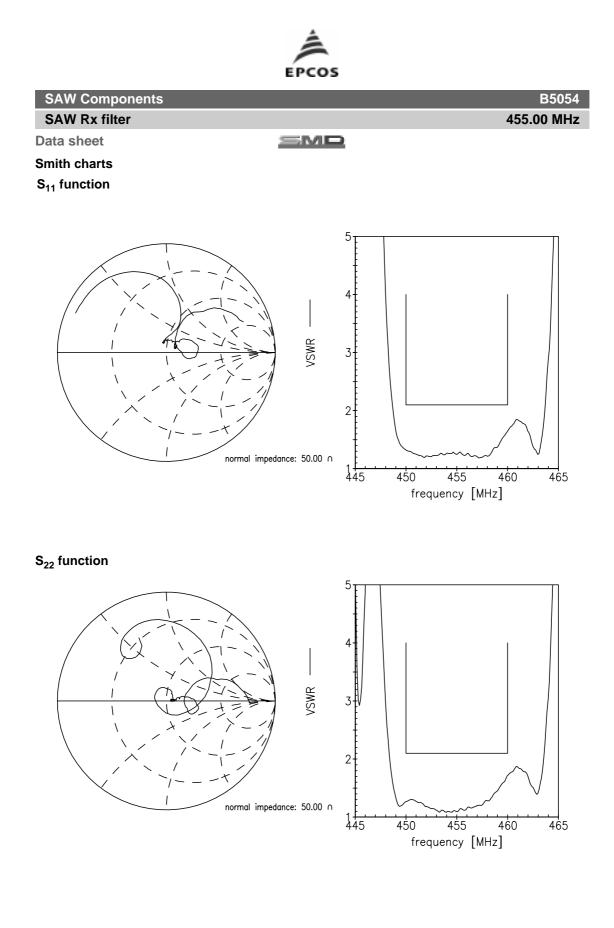


Transfer function (wideband)



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SAW Rx filter

Data sheet

SMD

References

Туре	B5054
Ordering code	B39461B5054Z810
Marking and package	C61157-A7-A46
Packaging	F61074-V8167-Z000
Date codes	L_1126
S-parameters	B5054_NB.s2p B5054_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."

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com .

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