

# **SAW Components**

SAW RF filter Short range devices

Series/type: Ordering code:

B4041 B39252B4041U410

Date: Version: June 26, 2009 2.3

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SAW Components	B4041
SAW RF filter	2450.00 MHz
Data sheet	

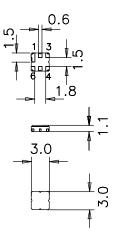
#### Application

- Low-loss RF filter for ISM 2450 MHz
- Low amplitude ripple
- Usable passband 97 MHz
- No matching network required for operation at 50 Ω



### Features

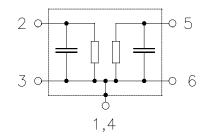
- Package size 3.0 x 3.0 x 1.1 mm<sup>3</sup>
- Package code DCC6C
- RoHS compatible
- Approximate weight 0.037 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Lead free soldering compatible with J STD20C
- Electrostactic Sensitive Device (ESD)



## **Pin configuration**

■ 2	Input
	mpat

- 5 Output
- 1, 3, 4, 6 To be grounded



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

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SAW Components					B4041
SAW RF filter				245	50.00 MHz
Data sheet	SM				
Characteristics					
Temperature range for specification: $T_A = -40 \degree C$ to $+85 \degree C$ Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 50 \Omega$					
		min.	typ.	max.	
			@ 25 °C		
Center frequency	f <sub>C</sub>	—	2448.50	—	MHz
Maximum insertion attenuation 2400.00 2497.00 MHz	$lpha_{max}$	_	2.9	4.0	dB
Amplitude ripple (p-p) 2400.00 2497.00 MHz	Δα	_	1.4	2.7	dB
Attenuation 50.00  1785.00 MHz   1785.00  2100.00 MHz   2100.00  2300.00 MHz   2600.00  2800.00 MHz   2800.00  3100.00 MHz   3100.00  4200.00 MHz	α	15.0 18.0 24.0 22.0 24.0 20.0 7.0	19.0 22.0 28.0 26.0 28.0 25.0 10.0	  	dB dB dB dB dB dB dB

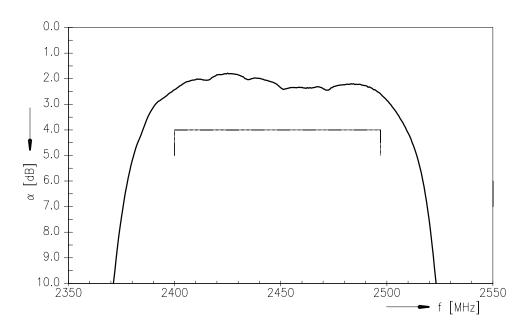
## Maximum ratings

Operable temperature range	T <sub>A</sub>	-45/+125	°C	
Storage temperature range	T <sub>stg</sub>	-45/+125	°C	
DC voltage	$V_{DC}$	6	V	
Input power max.	P <sub>IN</sub>	16.0	dBm	source impedance 50 $\Omega$

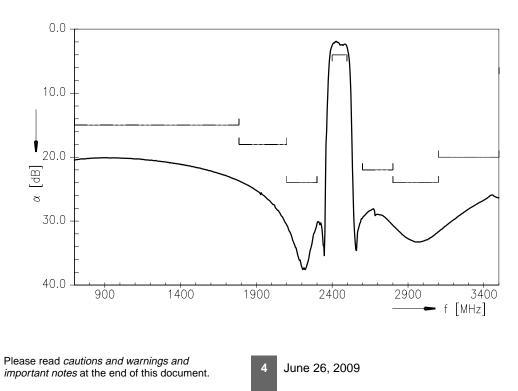
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Transfer function (passband)

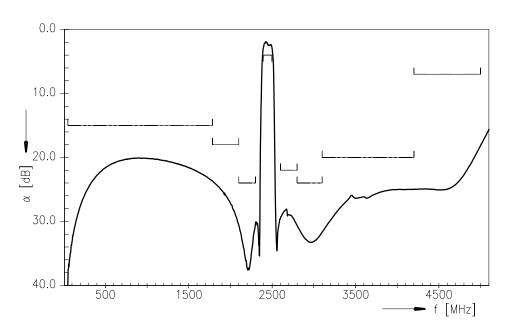


**Transfer function** 





Transfer function (wideband)



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#### References

Туре	B4041
Ordering code	B39252B4041U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B4041_NB.s2p B4041_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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