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SAW Components

SAW filter

Short range devices

Series/type: B4041

Ordering code: B39252B4041U410

Date: November 10, 2006

Version: 2.1

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SAW Components B4041

SAW filter 2450.00 MHz

Data sheet



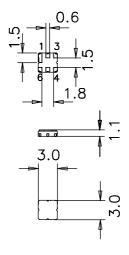
Application

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



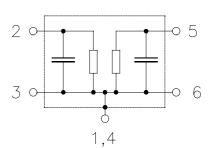
Features

- Package size 3.0 x 3.0 x 1.1 mm³
- 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
- 5 Output
- 1, 3, 4, 6 To be grounded



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



SAW Components B4041

SAW filter 2450.00 MHz

Data sheet \equiv MD

Characteristics

Temperature range for specification:

 T_A = -40 °C to +85 °C Z_S = 50 Ω Z_L = 50 Ω Terminating source impedance: Terminating load impedance:

		min.	typ.	max.	
			@ 25 °C		
Center frequency	f _C	_	2448.50		MHz
Maximum insertion attenuation	α_{max}				
2400.0024970.00 MHz		_	2.9	4.0	dB
Amplitude ripple (p-p)	Δα				
2400.00 2497.00 MHz		_	1.4	2.7	dB
Attenuation	α				
50.00 1785.00 MHz		15.0	19.0	_	dB
1785.00 2100.00 MHz		18.0	22.0	_	dB
2100.00 2300.00 MHz		24.0	28.0	_	dB
2600.00 2800.00 MHz		22.0	26.0	_	dB
2800.00 3100.00 MHz		24.0	28.0	_	dB
3100.00 4200.00 MHz		20.0	25.0	_	dB
4200.00 5000.00 MHz		7.0	10.0	_	dB

Maximum ratings

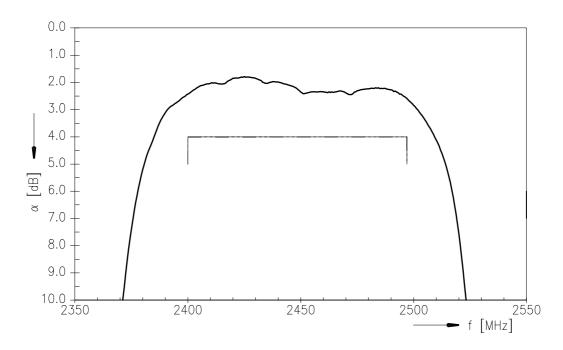
Operable temperature range	T _A	-40/+85	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	0	V	
Input power max.	P_{IN}	7.5	dBm	source impedance 50 Ω



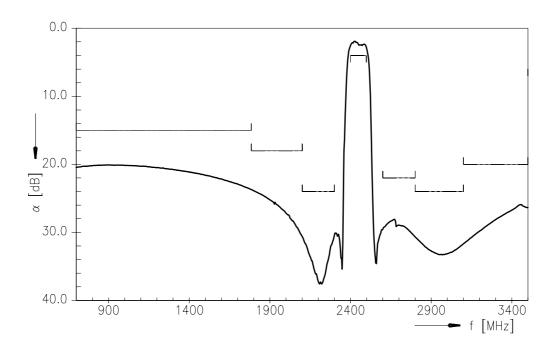
SAW Components		B4041
SAW filter		2450.00 MHz
Data sheet	SMD	

Transfer function (passband)

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Transfer function



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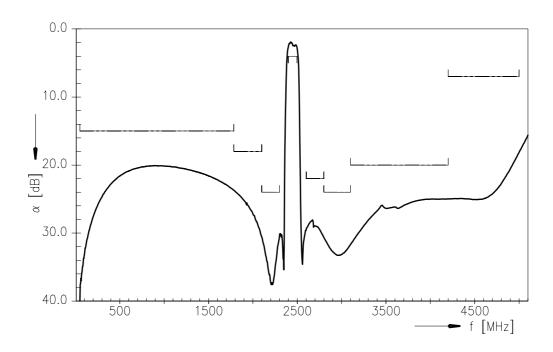
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SAW Components		B4041
SAW filter		2450.00 MHz
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Transfer function (wideband)

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SAW Components		B4041
SAW filter		2450.00 MHz
Data sheet	=MD	

Data sheet

References

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Туре	B4041	
Ordering code	B39252B4041U410	
Marking and package	C61157-A7-A67	
Packaging	F61074-V8168-Z000	
Date codes	L_1126	
S-parameters	B4041_SB.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 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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Please read cautions and warnings and important notes at the end of this document.

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