

SAW Components

SAW filter Short range devices

Series/type: Ordering code: B3719 B39321B3719H110

Date: Version: June 22, 2007 2.0

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SAW Components		B3719
SAW filter		315.00 MHz
Data sheet	SMD	

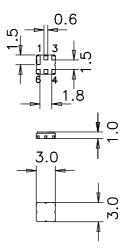
Application

- Low-loss RF filter for remote control receivers
- No matching network required for operation at 50 Ω



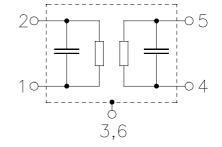
Features

- Package size 3.0 x 3.0 x 1.0 mm³
- Package code DCC6E
- RoHS compatible
- Approximate weight 0.037 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Lead free soldering compatible with J STD20C
- Passivation layer Elpas
- AEC-Q200 qualified component family
- Electrostactic Sensitive Device (ESD)



Pin configuration¹⁾

- 1 Input (recommended) or input ground
- 2 Input ground (recommended) or input
- 4 Output (recommended) or output ground
- 5 Output ground (recommended) or output
- 3,6 Ground (case)



¹⁾ The recommended pin configuration usually offers best suppression of electrical crosstalk. The filter characteristics refer to this configuration.

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

2 June 22, 2007



SAW Components					B3719
SAW filter				31	5.00 MHz
Data sheet	$\leq M$				
Characteristics					
Temperature range for specification: Terminating source impedance: Terminating load impedance:		40 °C to 50 Ω 50 Ω	+85 °C		
		min.	typ. @ 25 °C	max.	
Center frequency	f _C		315.00		MHz
Maximum insertion attenuation 314.50 315.50 M	α _{max} 1Hz	_	1.4	1.9	dB
Amplitude ripple (p-p)	Δα				
314.50 315.50 N	1Hz	—	0.4	1.0	dB
Input VSWR 314.50 315.50 M	1Hz	_	1.3	1.6	
Output VSWR					
314.50 315.50 N	1Hz	—	1.3	1.6	
Attenuation	α				
270.00 286.00 N		60	68		dB
293.00 293.90 N		56	64 52		dB
304.00 304.60 N 325.40 326.00 N		49 29	53 33		dB dB
336.10 337.00 M		29 52	60		dB
357.50 358.70 N		55	63		dB



SAW Components								B3719
SAW filter							3′	15.00 MHz
Data sheet				$\leq M$				
Characteristics								
Temperature range for Terminating source im Terminating load impe	pedar	nce:		T = Z _S = Z _L =		9+105 °C		
					min.	typ. @ 25 °C	max.	
Center frequency				f _C		315.00		MHz
Maximum insertion a 314.50		u ation 315.50	MHz	$lpha_{max}$	_	1.4	2.0	dB
Amplitude ripple (p-p)			Δα				
314.5	D	315.50	MHz		—	0.4	1.0	dB
Input VSWR 314.5	D	315.50	MHz			1.3	1.6	
Output VSWR								
314.5	D	315.50	MHz		—	1.3	1.6	
Attenuation				α				
		286.00			60	68	—	dB
		293.90 304.60			56 49	64 53	_	dB dB
		304.00			49 29	33		dB
		337.00			52	60	_	dB
		358.70			55	63		dB



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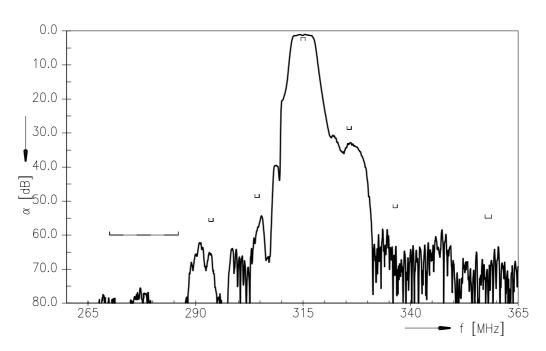
Maximum ratings

Operable temperature range	Т	-45/+125	°C	
Storage temperature range	T _{stg}	-45/+125	°C	
DC voltage	V _{DC}	6	V	
Source power	P_S	13	dBm	source impedance 50 Ω

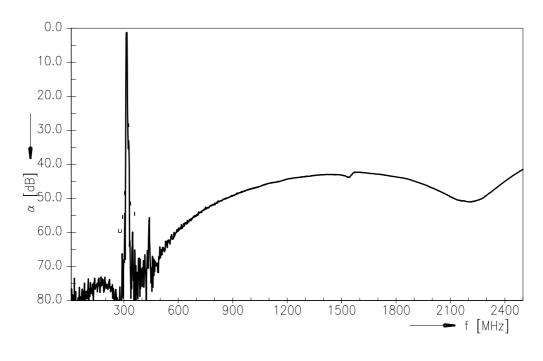


SAW Components		B3719
SAW filter		315.00 MHz
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Transfer function (wideband)



Transfer function (ultimate rejection)



6

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June 22, 2007



SAW filter Data sheet

SMD

References

Туре	B3719		
Ordering code	B39321B3719H110		
Marking and package	C61157-A7-A67		
Packaging	F61074-V8168-Z000		
Date codes	L_1126		
S-parameters	B3719_NB.s2p B3719_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."		

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June 22, 2007



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