



SAW Components

SAW filter

Short range devices

Series/type:	B3719
Ordering code:	B39321B3719H110
Date:	June 22, 2007
Version:	2.0



SAW Components

B3719

SAW filter

315.00 MHz

Data sheet



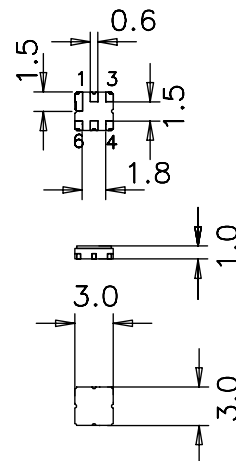
Application

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



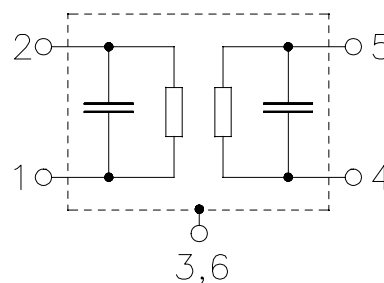
Features

- 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
- **Electrostatic 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.



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Characteristics

Temperature range for specification: $T = -40\text{ °C to }+85\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ. @ 25 °C	max.	
Center frequency	f_C	—	315.00	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$	—	1.4	1.9	dB
	314.50 ... 315.50 MHz				
Amplitude ripple (p-p)	$\Delta\alpha$	—	0.4	1.0	dB
	314.50 ... 315.50 MHz				
Input VSWR		—	1.3	1.6	
	314.50 ... 315.50 MHz				
Output VSWR		—	1.3	1.6	
	314.50 ... 315.50 MHz				
Attenuation	α				
	270.00 ... 286.00 MHz	60	68	—	dB
	293.00 ... 293.90 MHz	56	64	—	dB
	304.00 ... 304.60 MHz	49	53	—	dB
	325.40 ... 326.00 MHz	29	33	—	dB
	336.10 ... 337.00 MHz	52	60	—	dB
	357.50 ... 358.70 MHz	55	63	—	dB



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Characteristics

Temperature range for specification: $T = -45\text{ °C to }+105\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ. @ 25 °C	max.	
Center frequency	f_C	—	315.00	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$	—	1.4	2.0	dB
	314.50 ... 315.50 MHz				
Amplitude ripple (p-p)	$\Delta\alpha$	—	0.4	1.0	dB
	314.50 ... 315.50 MHz				
Input VSWR		—	1.3	1.6	
	314.50 ... 315.50 MHz				
Output VSWR		—	1.3	1.6	
	314.50 ... 315.50 MHz				
Attenuation	α				
	270.00 ... 286.00 MHz	60	68	—	dB
	293.00 ... 293.90 MHz	56	64	—	dB
	304.00 ... 304.60 MHz	49	53	—	dB
	325.40 ... 326.00 MHz	29	33	—	dB
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Maximum ratings

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



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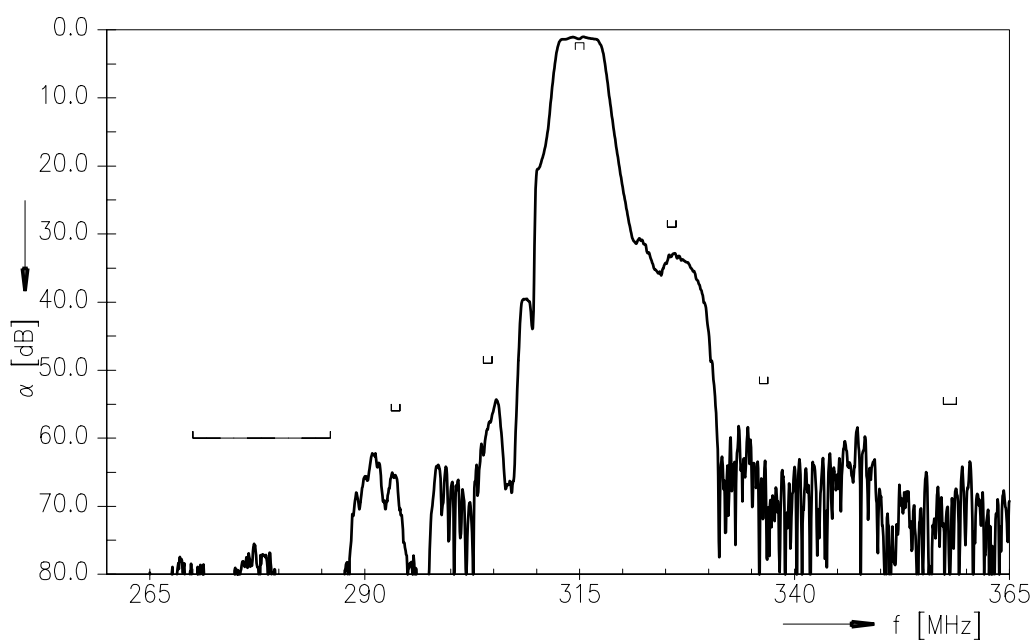
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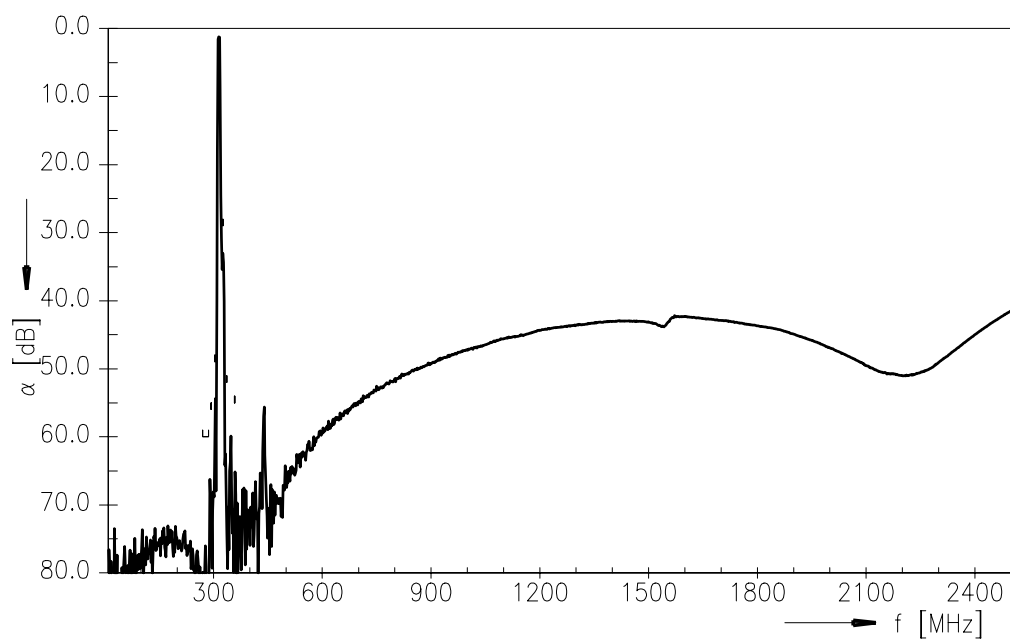
Data sheet



Transfer function (wideband)



Transfer function (ultimate rejection)





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Data sheet	SMD

References

Type	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 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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