



## **SAW Components**

### **SAW filter**

Short range devices

<b>Series/type:</b>	<b>B3717</b>
<b>Ordering code:</b>	<b>B39871B3717U410</b>
<b>Date:</b>	<b>February 27, 2006</b>
<b>Version:</b>	<b>2.0</b>



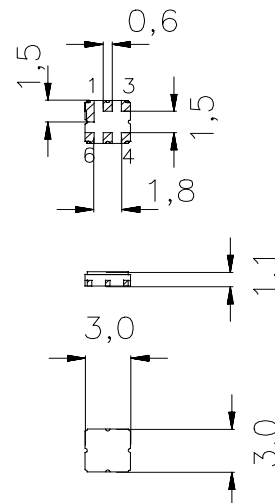
### Application

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



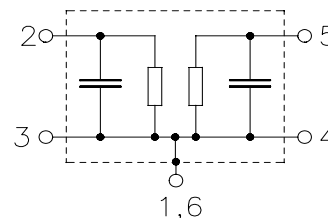
### Features

- Package size 3.0 x 3.0 x 1.1 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
- Passivation layer Elpas
- AEC-Q200 qualified component family
- **Electrostatic Sensitive Device (ESD)**



### Pin configuration

- 2 Input
- 5 Output
- 1,3,4,6 Ground





**SAW Components**

**B3717**

**SAW filter**

**866.50 MHz**

Data sheet



**Characteristics**

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

		min.	typ. @ 25 °C	max.	
<b>Center frequency</b>	$f_C$	—	866.50	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{max}$				
865.00 ... 868.00 MHz		—	2.1	2.9	dB
863.00 ... 870.00 MHz		—	2.2	3.8	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
865.00 ... 868.00 MHz		—	0.1	1.1	dB
863.00 ... 870.00 MHz		—	0.2	2.0	dB
<b>Attenuation</b>	$\alpha$				
10.00 ... 830.00 MHz		40	44	—	dB
830.00 ... 845.00 MHz		32	40	—	dB
880.00 ... 884.00 MHz		20	38	—	dB
884.00 ... 887.00 MHz		36	54	—	dB
887.00 ... 965.00 MHz		48	52	—	dB
965.00 ... 1500.00 MHz		42	45	—	dB



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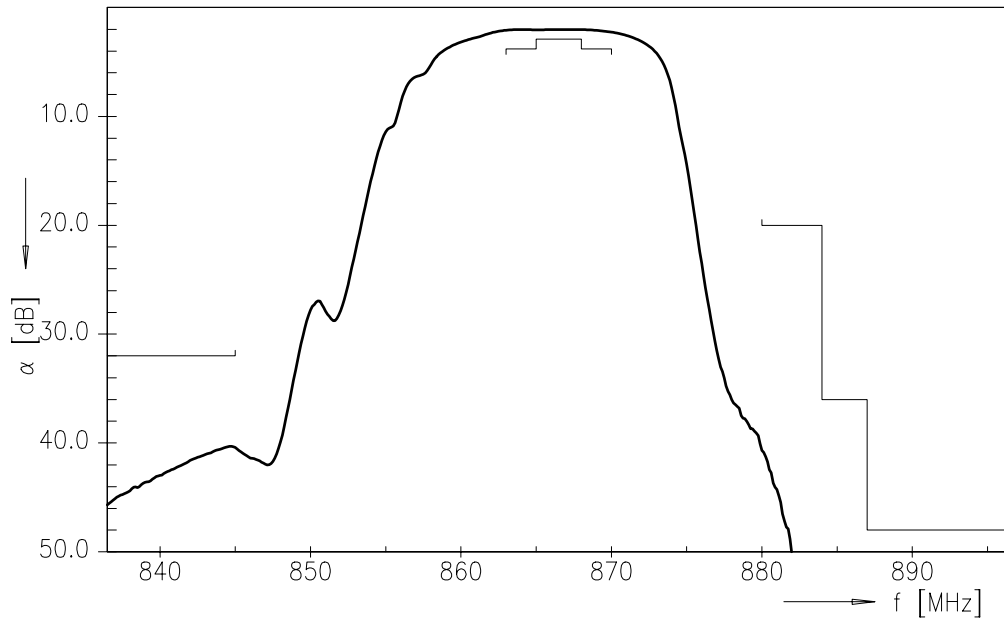


### Maximum ratings

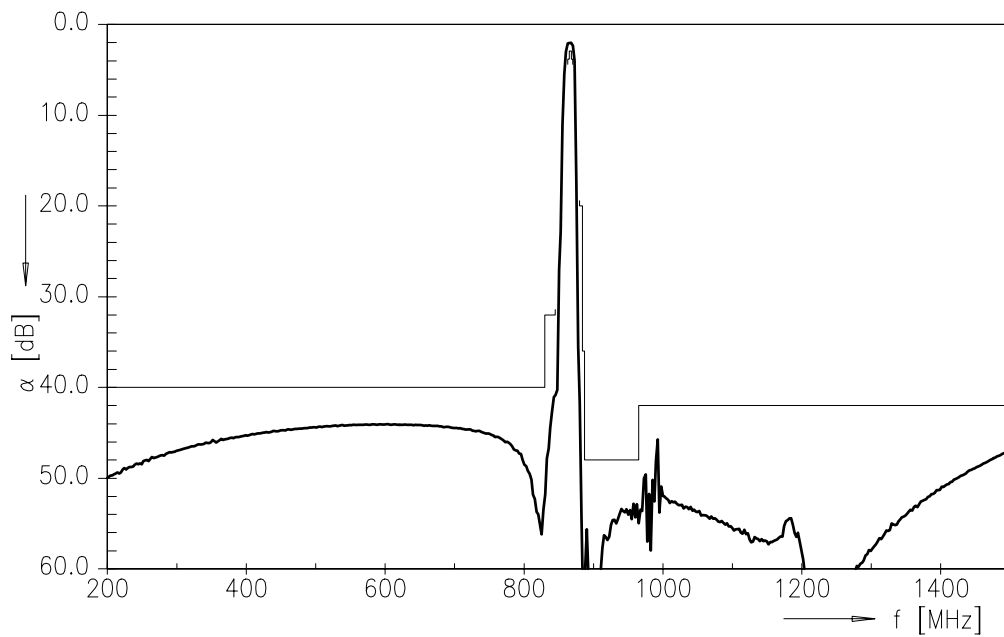
Operable temperature range	T	-40/+85	°C	
Storage temperature range	T <sub>stg</sub>	-40/+85	°C	
DC voltage	V <sub>DC</sub>	0	V	
Source power	P <sub>S</sub>	13	dBm	source impedance 50 Ω



Transfer function



Transfer function (wideband)





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<b>SAW filter</b>	<b>866.50 MHz</b>
Data sheet	

## References

<b>Type</b>	B3717
<b>Ordering code</b>	B39871B3717U410
<b>Marking and package</b>	C61157-A7-A67
<b>Packaging</b>	F61074-V8168-Z000
<b>Date codes</b>	L_1126
<b>S-parameters</b>	B3717_SB.s2p B3717_WB.s2p
<b>Soldering profile</b>	S_6001
<b>RoHS compatible</b>	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."

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