SAW Components

SAW RF filter

Short range devices

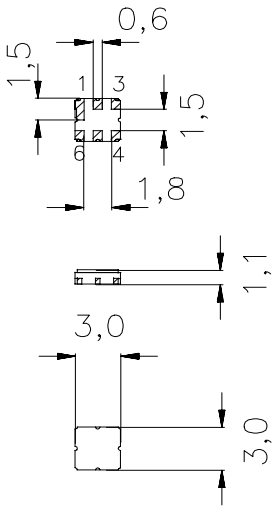
Series/type:	**B3717**
Ordering code:	**B39871B3717U410**
Date:	February 29, 2008
Version:	2.1

Application

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

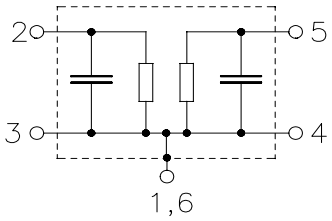
Features

- Package size 3.0 x 3.0 x 1.1 mm³
- Package code DCC6C
- RoHS compatible
- Approximate weight 0.037 g
- Package for **S**urface **M**ount **T**echnology (**SMT**)
- Ni, gold-plated terminals
- Lead free soldering compatible with J - STD20C
- Passivation layer Elpas
- AEC-Q200 qualified component family
- **E**lectrostactic **S**ensitive **D**evice (**ESD**)



Pin configuration

■	2	Input
■	5	Output
■	1,3,4,6	Ground



Characteristics

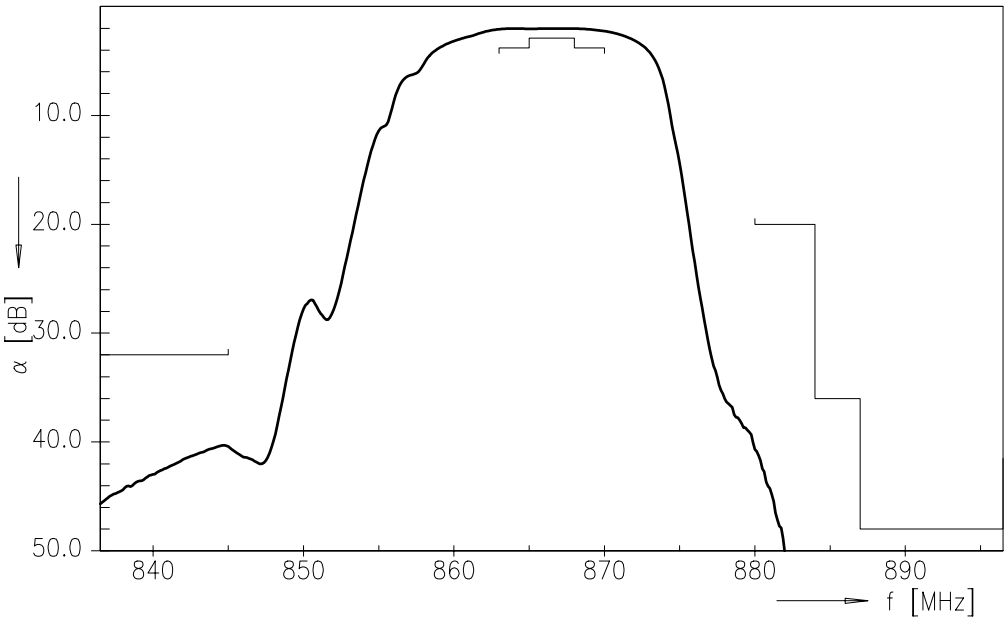
Operating temperature range: T = –40 ˚C to +85 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ. @ 25 ˚C	max.	
Center frequency	f_C	—	866.50	—	MHz
Maximum insertion attenuation	α_{max}				
865.00 ... 868.00 MHz		—	2.1	2.9	dB
863.00 ... 870.00 MHz		—	2.2	3.8	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
865.00 ... 868.00 MHz		—	0.1	1.1	dB
863.00 ... 870.00 MHz		—	0.2	2.0	dB
Attenuation	α				
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

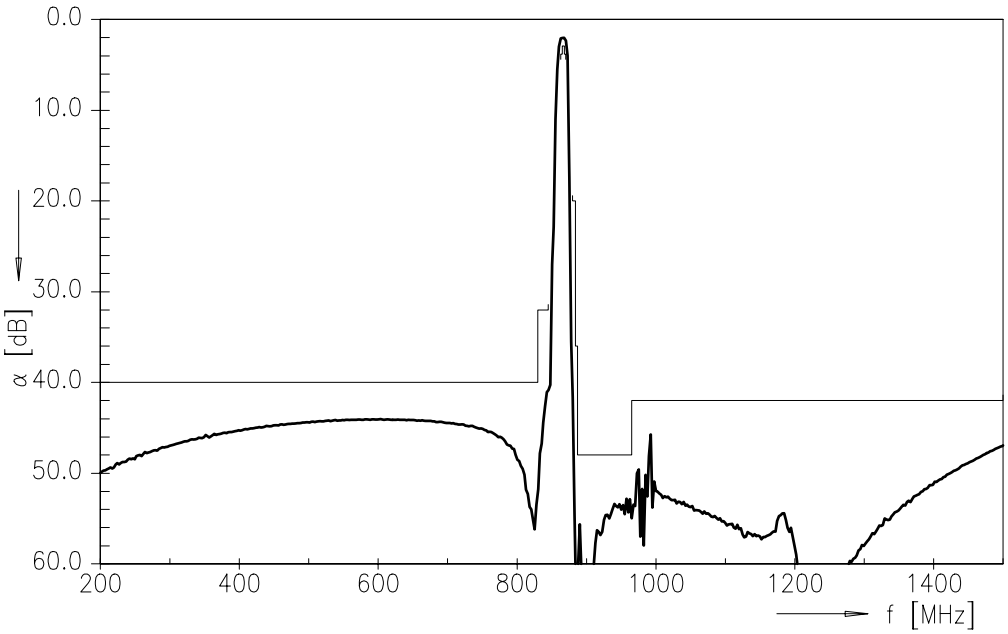
Maximum ratings

Operable temperature range	T	–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

Transfer function



Transfer function (wideband)



References

Type	B3717
Ordering code	B39871B3717U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B3717_SB.s2p B3717_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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