

SAW Components

SAW filter Short range devices

Series/type: Ordering code: B3715 B39871B3715U410

Date: Version: February 06, 2008 2.1

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SAW Components		B3715
SAW filter		869.00 MHz
Data sheet	SMD	

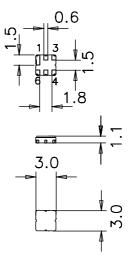
Application

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



Features

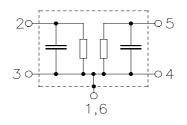
- Package size 3.0 x 3.0 x 1.1 mm³
- Package code DCC6C
- RoHS compatible
- Approximate weight 0.037 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Lead free soldering compatible with J STD20C
- Passivation layer Elpas
- AEC-Q200 qualified component family
- Electrostactic Sensitive Device (ESD)



Pin configuration

■ 2	Input
■ 5	Output

■ 1,3,4,6 Ground



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February 06, 2008

2



SAW Components					B3715
SAW filter				86	9.00 MHz
Data sheet	SM				
Characteristics					
Reference temperature: Terminating source impedance: Terminating load impedance:	T = Z _S = Z _L =	50 Ω			
		min.	typ.	max.	
Center frequency	f _C	_	869.00		MHz
Maximum insertion attenuation 868.00 870.00 MHz	$lpha_{max}$	_	2.4	3.1	dB
Amplitude ripple (p-p) 868.00 870.00 MHz	Δα	_	0.6	1.2	dB
Attenuation 10.00 845.00 MHz 845.00 851.00 MHz 851.00 858.00 MHz 883.00 892.00 MHz 892.00 1000.00 MHz	α	37 32 20 35 42	41 36 24 40 47	 	dB dB dB dB dB
Temperature coefficient of frequency	TC _f	_	-30		ppm/K



SAW Components					B3715
SAW filter				86	9.00 MHz
Data sheet	=M				
Characteristics					
Temperature range for specification:T= -40 °C to $+85$ °CTerminating source impedance: Z_S = 50Ω Terminating load impedance: Z_L = 50Ω					
		min.	typ.	max.	
Center frequency f	f _C	_	869.00		MHz
Maximum insertion attenuation 868.00 870.00 MHz	α_{max}	_	2.6	3.3	dB
Amplitude ripple (p-p) 868.00 870.00 MHz	Δα	_	0.6	1.2	dB
	α	07	44		
10.00 845.00 MHz 845.00 851.00 MHz		37 32	41 36		dB dB
851.00 856.80 MHz		20	24	_	dB
883.00 892.00 MHz		20	35	_	dB
892.00 1000.00 MHz		42	47		dB
Temperature coefficient of frequency	TC _f		-30		ppm/K

Maximum ratings

Operable temperature range	Т	-45/+125	°C	
Storage temperature range	T _{stg}	-45/+125	°C	
DC voltage	V _{DC}	5	V	
Source power	Ps	13	dBm	source impedance 50 Ω
Source power 868 MHz to 870 MHz	P _S	18	dBm	duty cycle 1:10, −40 °C to +85 °C

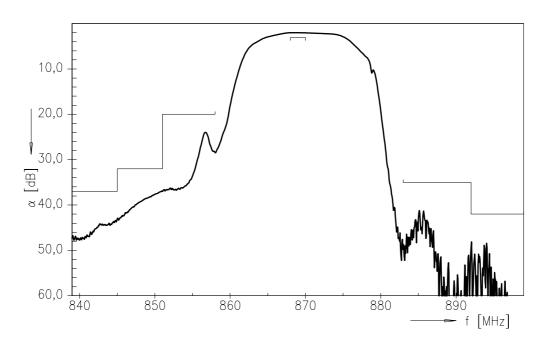
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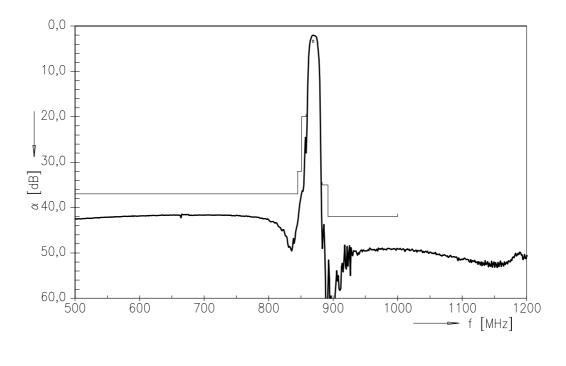




Transfer function



Transfer function (wideband)



5

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February 06, 2008



SAW filter Data sheet

SMD

References

Туре	B3715
Ordering code	B39871B3715U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B3715_SB.s2p B3715_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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6

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February 06, 2008



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