

SAW Components

SAW filter

Short range devices

Series/type: B3715

Ordering code: B39871B3715U410

Date: February 06, 2008

Version: 2.1

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SAW Components B3715

SAW filter 869.00 MHz

Data sheet



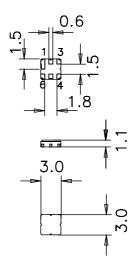
Application

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



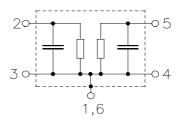
Features

- 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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Data sheet = MD

Characteristics

		min.	typ.	max.	
Center frequency	f _C	_	869.00	_	MHz
Maximum insertion attenuation	α_{max}				
868.00 870.00 MH:		_	2.4	3.1	dB
Amplitude ripple (p-p)	Δα				
868.00 870.00 MH:	Z	_	0.6	1.2	dB
Attenuation	α				
10.00 845.00 MHz	Z	37	41	_	dB
845.00 851.00 MHz	Z	32	36	_	dB
851.00 858.00 MH;	Z	20	24	_	dB
883.00 892.00 MH;	Z	35	40	_	dB
892.00 1000.00 MH:	Z	42	47	_	dB
Temperature coefficient of frequency	TC _f	_	-30	_	ppm/K



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Characteristics

Temperature range for specification: $T = -40 \,^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 50 \Omega$

		min.	typ.	max.	
Center frequency	f _C	_	869.00		MHz
Maximum insertion attenuation	α_{max}				
868.00 870.00 MHz		_	2.6	3.3	dB
Amplitude ripple (p-p)	Δα				
868.00 870.00 MHz		_	0.6	1.2	dB
Attenuation	α				
10.00 845.00 MHz		37	41	_	dB
845.00 851.00 MHz		32	36	_	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

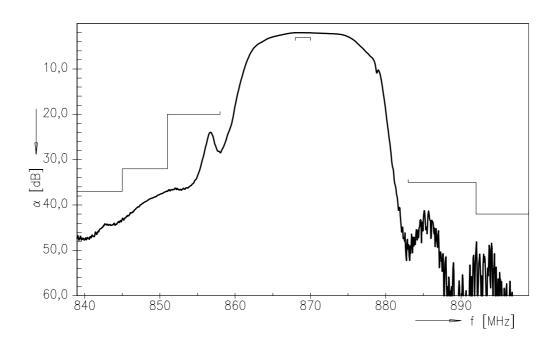
Operable temperature range	Т	-45/+125	°C	
Storage temperature range	T_{stg}	-45/+125	°C	
DC voltage	V_{DC}	5	V	
Source power	P_S	13	dBm	source impedance 50 Ω
Source power 868 MHz to 870 MHz	P_S	18	dBm	duty cycle 1:10, -40 °C to +85 °C



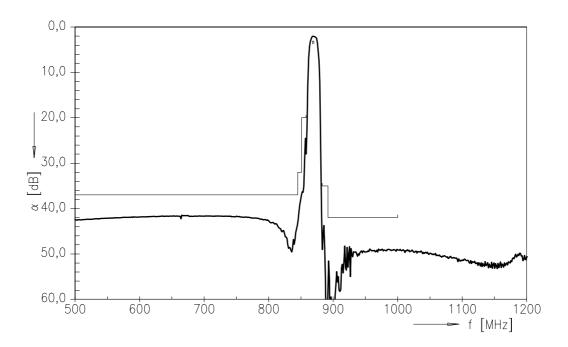
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Transfer function



Transfer function (wideband)





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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 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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