

# SAW Components

Data Sheet B3715





## SAW ComponentsB3715Low Loss Filter869,0 MHz

**Data Sheet** 

#### Features

- RF low-loss filter for remote control receivers
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package
- No matching network required for operation at 50  $\Omega$
- Passivation layer: Elpas
- AEC-Q200 qualified component family

#### Terminals

Ni, gold plated



#### Dimensions in mm, approx. weight 0,1 g

#### Pin configuration

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



Туре	Ordering code	Marking and Package according to	Packing according to
B3715	B39871-B3715-U410	C61157-A7-A67	F61074-V8168-Z000

Electrostatic Sensitive Device (ESD)

#### **Maximum ratings**

Operable temperature range	T <sub>A</sub>	-40/+85	°C	
Storage temperature range	$T_{\rm sta}$	-40/+85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	Ps	13	dBm	within passband (source 50 $\Omega$ )



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#### Characteristics

Reference temperature:	$T_{A}$	= 25 °C
Terminating source impedance:	$Z_{S}$	= 50 $\Omega$
Terminating load impedance:	$Z_{L}$	= 50 Ω

		min.	typ.	max.	
Center frequency	f <sub>c</sub>	_	869,0		MHz
Maximum insertion attenuation					
868,00 870,00 MHz	$lpha_{max}$	_	2,4	3,1	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
851,00 858,00 MHz		20	24	_	dB
883,00 892,00 MHz		35	40	_	dB
892,00 1000,00 MHz		42	47		dB
Temperature coefficient of frequency	TC <sub>f</sub>		-30		ppm/K



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#### Characteristics

Reference temperature:	$T_{A} = -40 \dots +85 \ ^{\circ}C$
Terminating source impedance:	$Z_{\rm S}$ = 50 $\Omega$
Terminating load impedance:	$Z_{\rm L} = 50 \ \Omega$

		min.	typ.	max.	
Center frequency	f <sub>c</sub>		869,0		MHz
Maximum insertion attenuation					
868,00 870,00 MHz	$lpha_{max}$	_	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 <sub>f</sub>		-30		ppm/K





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#### **Transfer function**



### Transfer function (wideband)



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This brochure replaces the previous edition.

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