SAW Components

SAW RF filter

Short range devices

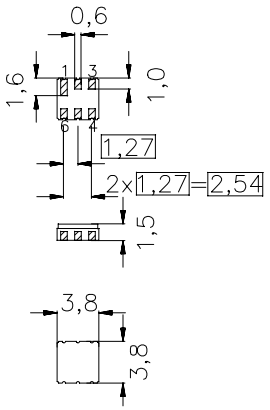
Series/type:	**B3723**
Ordering code:	**B39871B3723Z610**
Date:	August 05, 2008
Version:	2.0

Application

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

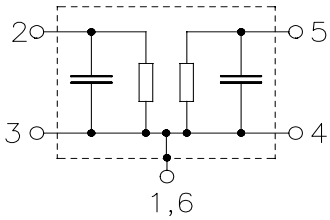
Features

- Package size 3.8 x 3.8 x 1.5 mm³
- Package code DCC6
- RoHS compatible
- Approximate weight 0.07 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 (reduced operating temperature range)

Temperature range for specification: T = –20 ˚C to +70 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ. @ 25 ˚C	max.	
Center frequency	f_C	—	869.00	—	MHz
Maximum insertion attenuation	α_{max}				
868.00 ... 870.00 MHz		—	2.5	3.5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
868.00 ... 870.00 MHz		—	0.3	1.3	dB
Return loss (input / output)					
868.00 ... 870.00 MHz		10	20	—	
Attenuation	α				
10.00 ... 300.00 MHz		45	50	—	dB
300.00 ... 853.00 MHz		40	44	—	dB
879.00 ... 883.00 MHz		20	30	—	dB
883.00 ... 915.00 MHz		45	55	—	dB
915.00 ... 945.00 MHz		40	45	—	dB
945.00 ... 1200.00 MHz		45	55	—	dB
1200.00 ... 2000.00 MHz		35	40	—	dB

Data sheet SMD

Characteristics

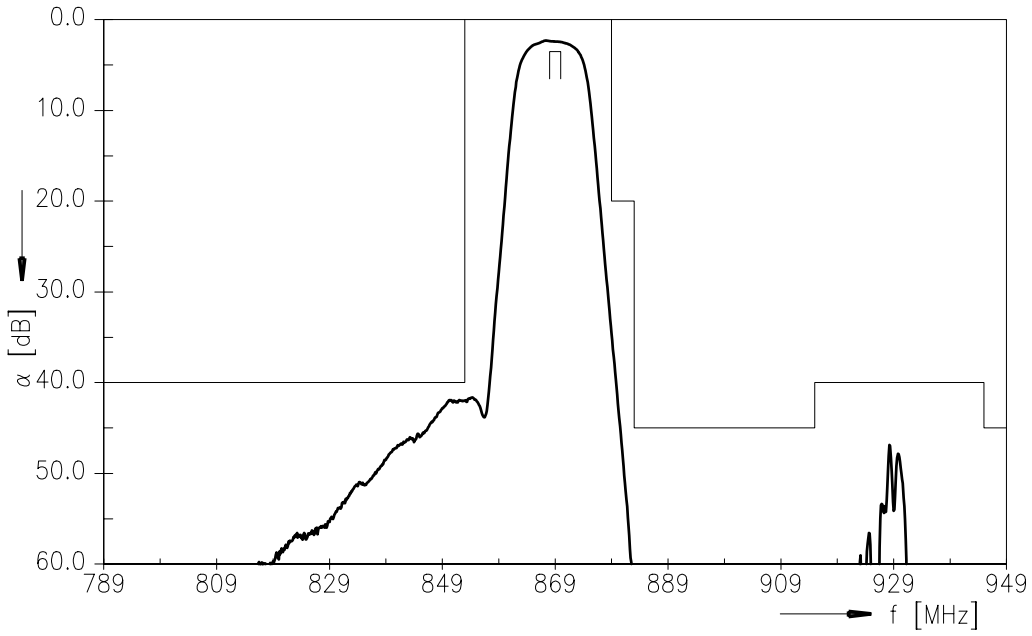
Temperature range for specification: T = –40 ˚C to +85 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ. @ 25 ˚C	max.	
Center frequency	f_C	—	869.00	—	MHz
Maximum insertion attenuation	α_{max}				
868.00 ... 870.00 MHz		—	2.5	4.0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
868.00 ... 870.00 MHz		—	0.3	1.7	dB
Return loss (input / output)					
868.00 ... 870.00 MHz		10	20	—	
Attenuation	α				
10.00 ... 300.00 MHz		45	50	—	dB
300.00 ... 853.00 MHz		40	44	—	dB
879.00 ... 883.00 MHz		15	30	—	dB
883.00 ... 915.00 MHz		45	55	—	dB
915.00 ... 945.00 MHz		40	45	—	dB
945.00 ... 1200.00 MHz		45	55	—	dB
1200.00 ... 2000.00 MHz		35	40	—	dB

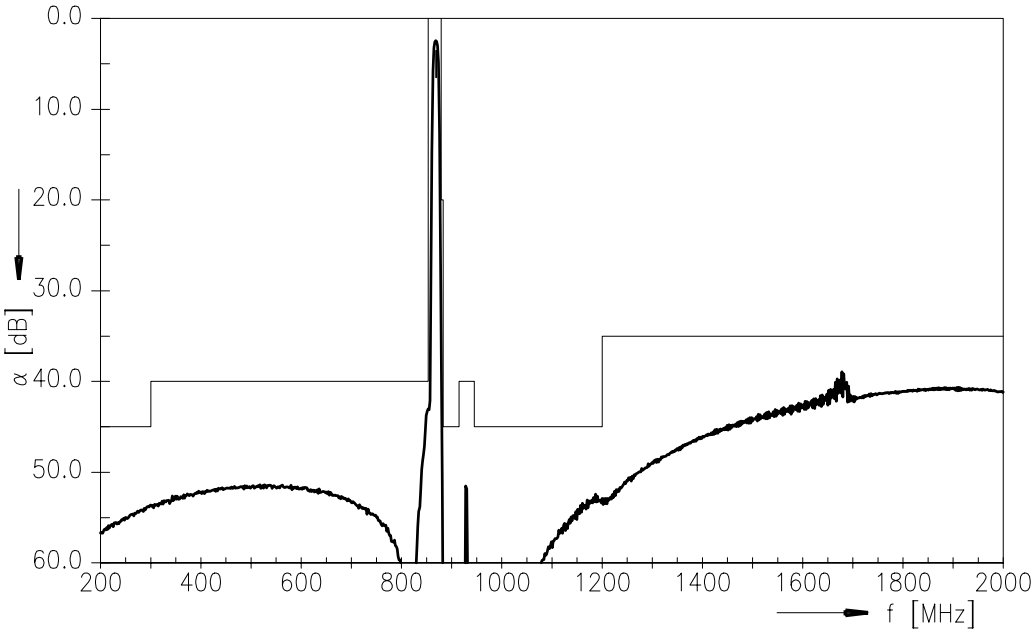
Maximum ratings

Operable temperature range	T	–45/+125	˚C	
Storage temperature range	T_{stg}	–45/+125	˚C	
DC voltage	V_{DC}	0	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

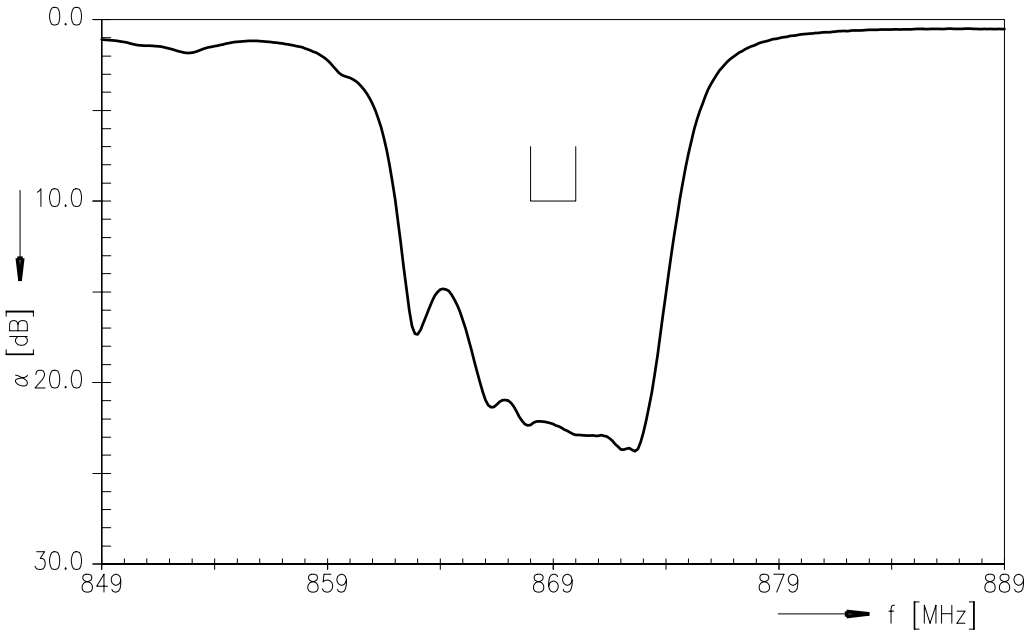
Transfer function



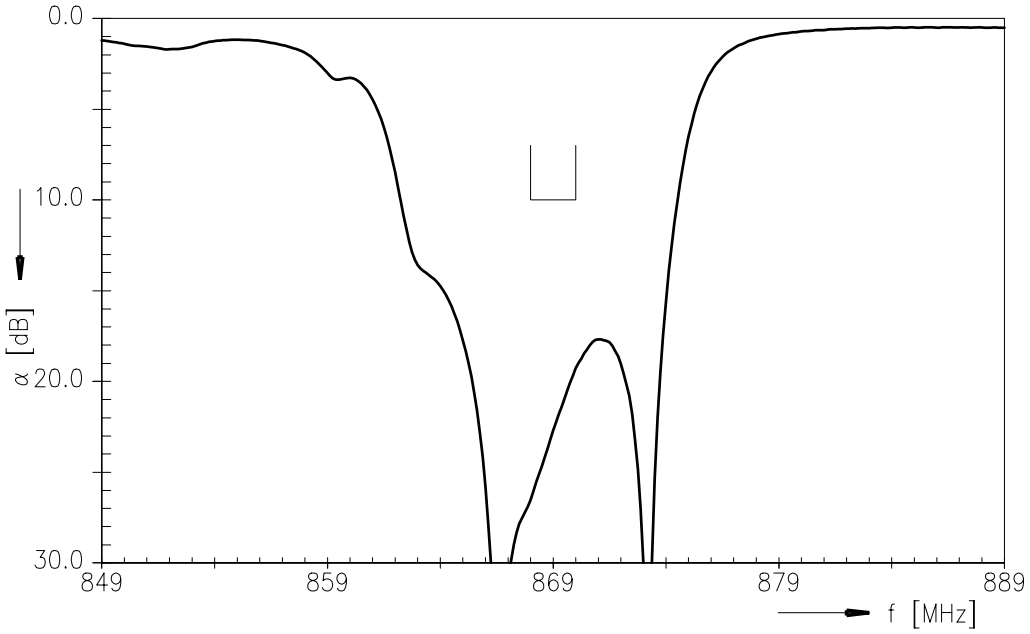
Transfer function (wide band)



S11


0.0
10.0
20.0
30.0
α [dB]
849
859
869
879
889
f [MHz]

S22


0.0
10.0
20.0
30.0
α [dB]
849
859
869
879
889
f [MHz]

References

Type	B3723
Ordering code	B39871B3723Z610B
Marking and package	C61157-A7-A41
Packaging	F61074-V8167-Z000
Date codes	L_1126
S-parameters	B3723_NB.s2p B3723_WB.s2p See file header for port/pin assignment table.
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."

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