



SAW Components

SAW RF filter

Automotive telematics

Series/type:	B3908
Ordering code:	B39881B3908U410
Date:	April 20, 2010
Version:	2.0

Data sheet



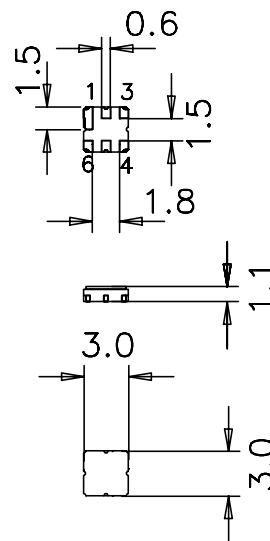
Application

- Low-loss RF filter for Automotive telematics
- Low amplitude ripple
- Usable passband 25 MHz



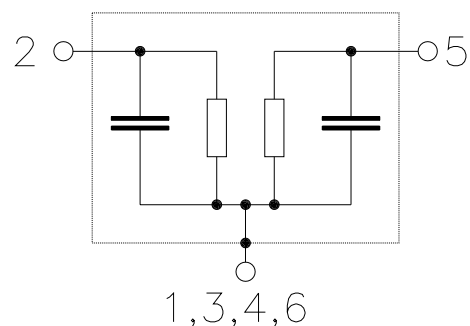
Features

- 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
- **Electrostatic Sensitive Device (ESD)**



Pin configuration

- 2 Input
- 5 Output
- 1,3,4,6 Case ground (to be grounded)



Data sheet


Characteristics

Temperature range for specification: $T = -40\text{ °C to }+95\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ. @ 25 °C	max.	
Center frequency	f_C	—	881.50	—	MHz
Maximum insertion attenuation	α_{\max}				
869.0 ... 894.0 MHz		—	2.6	3.2	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
869.0 ... 894.0 MHz		—	1.1	1.7	dB
VSWR					
869.0 ... 894.0 MHz		—	1.7	2.0	
Attenuation	α				
10.0 ... 820.0 MHz		40	50	—	dB
820.0 ... 849.0 MHz		35	45	—	dB
970.0 ... 997.0 MHz		35	60	—	dB
997.0 ... 1150.0 MHz		40	60	—	dB
1150.0 ... 1500.0 MHz		35	50	—	dB
1500.0 ... 2000.0 MHz		30	40	—	dB
2000.0 ... 3000.0 MHz		20	25	—	dB

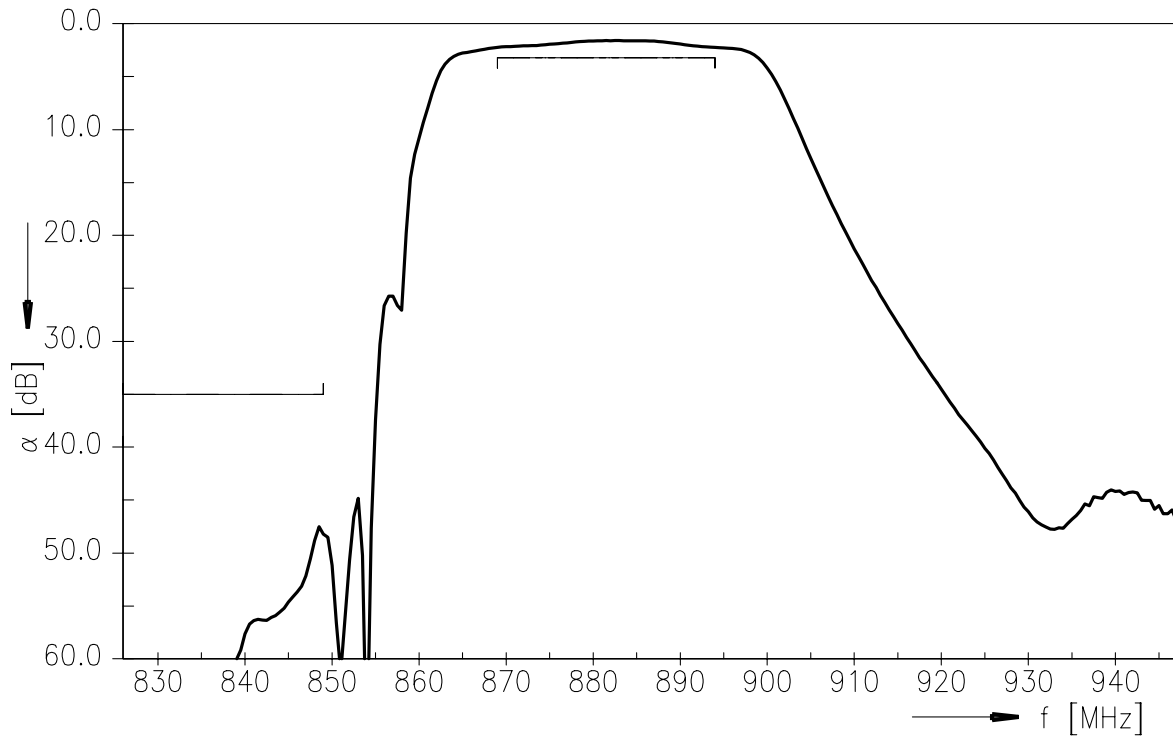
Maximum ratings

Operable temperature range	T	-45/+125	°C	
Storage temperature range	T_{stg}	-45/+125	°C	
DC voltage	V_{DC}	6	V	
Input power	P_{IN}	18	dBm	

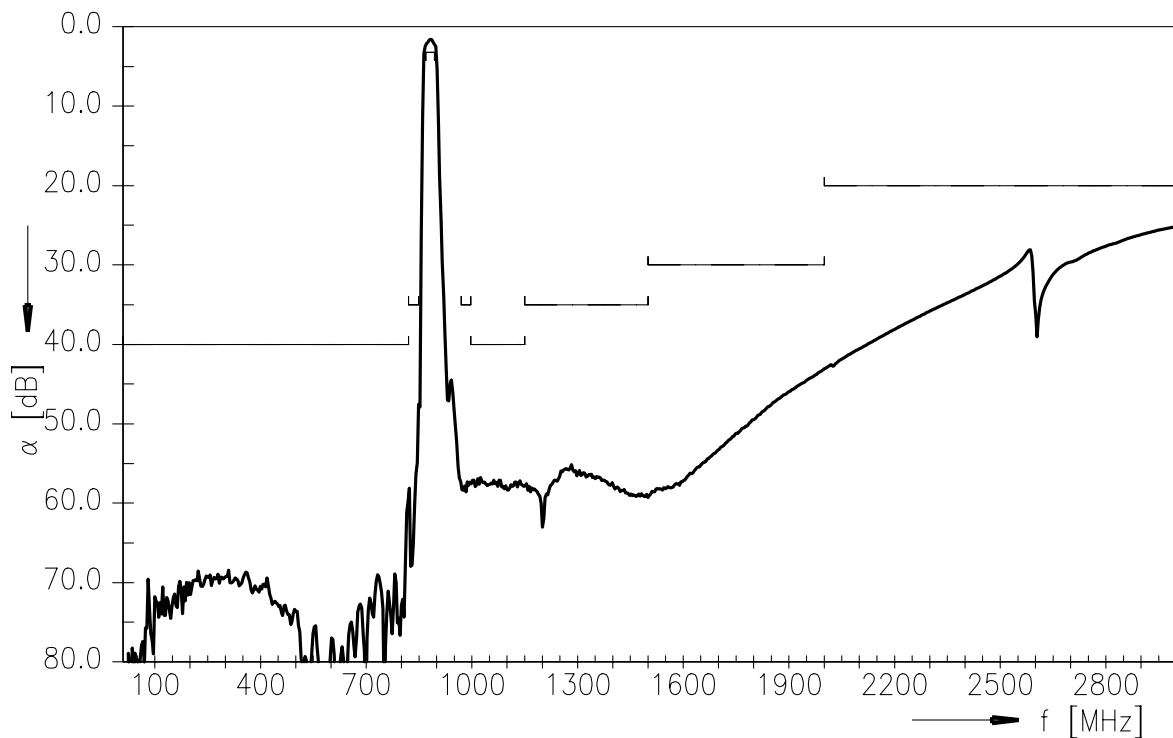
Data sheet



Frequency response



Frequency response (wideband)




References

Type	B3908
Ordering code	B39881B3908U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8228-Z000
Date codes	L_1126
S-parameters	B3908_NB.s2p B3908_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."

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com .

Published by EPCOS AG
Surface Acoustic Wave Components Division
P.O. Box 80 17 09, 81617 Munich, GERMANY

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