

# **SAW Components**

# SAW filter

Short range devices

Series/type: B3512

Ordering code: B39941-B3512-U410

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SAW Components B3512

SAW filter 942.50 MHz

**Data sheet** 



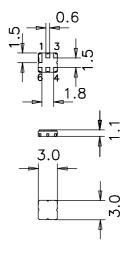
#### **Application**

- Low-loss RF filter for remote control receivers
- Usable passband 35 MHz



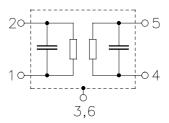
#### **Features**

- Package size 3.0 x 3.0 x 1.1 mm<sup>3</sup>
- 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
- Electrostactic Sensitive Device (ESD)



### Pin configuration

- 2 Input
- 5 Output
- 1,3,4,6 Case ground





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Data sheet = MD

**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. @ 25 °C	max.	
Center frequency	f	С		942.50	_	MHz
Maximum insertion attenuation 925.00 960.0		α <sub>max</sub>	_	3.8	5.0	dB
<b>Amplitude ripple</b> (p-p) 925.00 960.00		Δα	_	2.0	3.4	dB
VSWR           Input         925.00 960.00           Output         925.00 960.00	O MHz O MHz			2.3 2.3	2.5 2.5	
0.00        800.00         800.00        880.00         880.00        905.00         905.00        915.00         980.00        982.00         982.00        1005.00         1005.00        1025.00         1760.00        2500.00         2500.00        3120.00         4000.00        6000.00	MHz	x	50 40 30 15 20 23 30 40 30 20 18	60 52 38 28 22 26 42 50 40 27 25 8		dB dB dB dB dB dB dB dB dB dB dB



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SAW filter	942.50 MHz
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# Maximum ratings

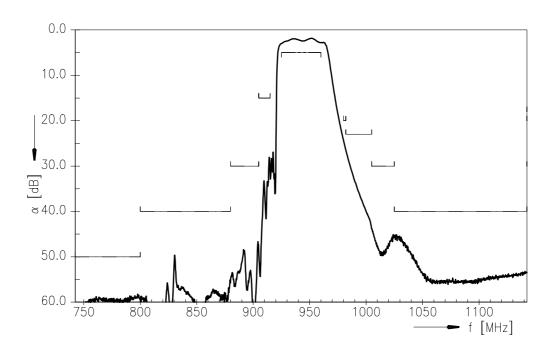
Operable temperature range	Т	-45/+125	°C	
Storage temperature range	$T_{stg}$	-45/+125	°C	
DC voltage	$V_{DC}$	3	V	
ESD voltage	$V_{ESD}$	100 <sup>1)</sup>	V	machine model, 10 pulses
Input power max.				source and load impedance 50 $\Omega$
925.00 960.00 MHz	$P_{IN}$	15	dBm	continuous wave, 85 °C

<sup>1)</sup> acc. to JESD22-A115A (machine model), 10 negative & 10 positive pulses.

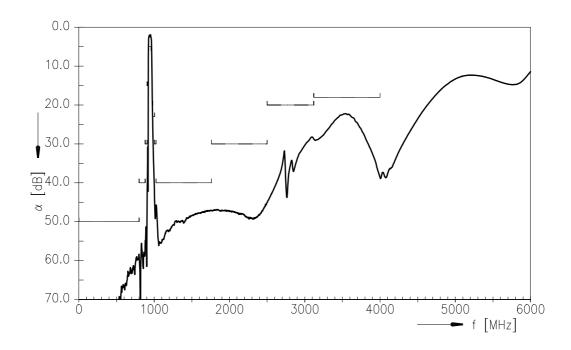


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Data sheet	SMD	

## **Transfer function**



# Transfer function (wideband)





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#### References

Туре	B3512
Ordering code	B39941-B3512-U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B3512_NB.s2p B3512_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."

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