

# **SAW Components**

## SAW RF filter

Automotive telematics

Series/type: B3529

Ordering code: B39162B3529U410

Date: April 15, 2008

Version: 2.2

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SAW Components B3529
SAW RF filter 1601.50 MHz

**Data sheet** 



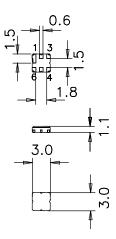
#### **Application**

- Low-loss RF filter for Glonass application
- $\blacksquare$  No matching network required for operation at 50  $\Omega$



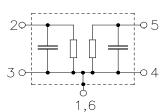
#### **Features**

- 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
- AEC-Q200 qualified component family
- Electrostactic Sensitive Device (ESD)



## Pin configuration

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



Please read *cautions* and *warnings* and *important* notes at the end of this document.



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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. @ 25 °C	max.	
Center frequency	f <sub>C</sub>	_	1601.5	_	MHz
Maximum insertion attenuation 1593.00 1610.00 MHz	$\alpha_{\text{max}}$	_	2.5	4.0	dB
<b>Amplitude ripple</b> (p-p) 1593.00 1610.00 MHz	Δα	_	0.6	2.5	dB
<b>Group delay ripple</b> (p-p) 1593.00 1610.00 MHz	Δτ	_	12	27	ns
<b>VSWR</b> 1593.00 1610.00 MHz		_	1.6	2.0	
Attenuation	α				
700.00 1400.00 MHz		40	44	_	dB
1400.00 1530.00 MHz		35	40	_	dB
1530.00 1570.00 MHz		10	12	_	dB
1625.00 1640.00 MHz		10	25	_	dB
1640.00 1650.00 MHz		22	37	_	dB
1650.00 1670.00 MHz		30	48	_	dB
1670.00 1870.00 MHz		40	43	_	dB
1870.00 2270.00 MHz		35	38	_	dB dB
2270.00 2700.00 MHz		30	35	_	ub



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## **Maximum ratings**

Operable temperature range	Т	-45/+125	°C	
Storage temperature range	$T_{stg}$	-45/+125	°C	
DC voltage	$V_{DC}$	6	V	
Source power	$P_S$	10	dBm	source impedance 50 $\Omega$



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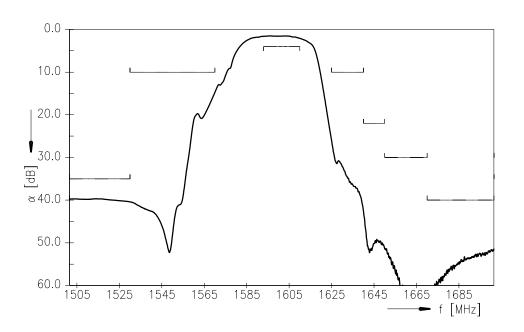
SAW RF filter

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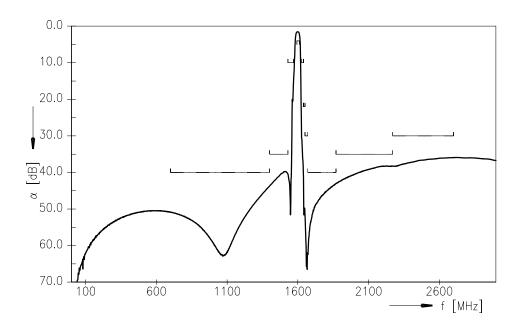
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1601.50 MHz

## **Transfer function**



## Transfer function (wideband)



Please read *cautions and warnings and important notes* at the end of this document.

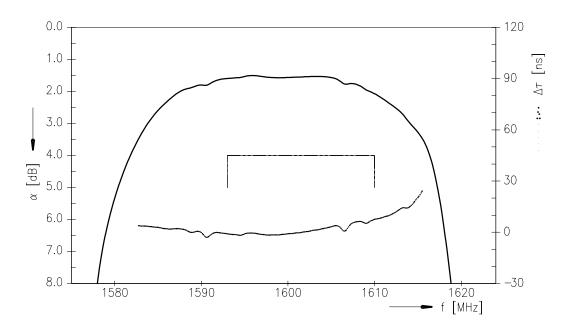
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## **Transfer function**





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#### References

Туре	B3529
Ordering code	B39162B3529U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B3529_NB.s2p B3529_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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