



SAW Components

SAW RF filter

Automotive telematics

Series/type:	B3529
Ordering code:	B39162B3529U410
Date:	April 15, 2008
Version:	2.2



SAW Components

B3529

SAW RF filter

1601.50 MHz

Data sheet



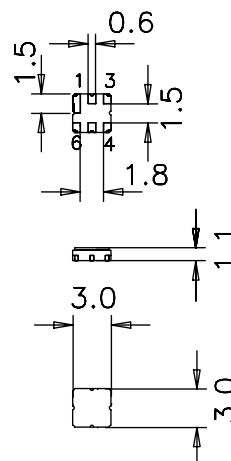
Application

- Low-loss RF filter for Glonass application
- No matching network required for operation at 50 Ω



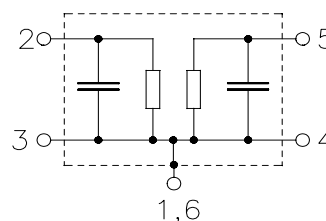
Features

- 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
- AEC-Q200 qualified component family
- **Electrostatic Sensitive Device (ESD)**



Pin configuration

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





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Characteristics

Temperature range for specification: $T = -40\text{ °C to }+85\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

		min.	typ. @ 25 °C	max.	
Center frequency	f_C	—	1601.5	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$	—	2.5	4.0	dB
1593.00 ... 1610.00 MHz					
Amplitude ripple (p-p)	$\Delta\alpha$	—	0.6	2.5	dB
1593.00 ... 1610.00 MHz					
Group delay ripple (p-p)	$\Delta\tau$	—	12	27	ns
1593.00 ... 1610.00 MHz					
VSWR		—	1.6	2.0	
1593.00 ... 1610.00 MHz					
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
2270.00 ... 2700.00 MHz		30	35	—	dB



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Maximum ratings

Operable temperature range	T	−45/+125	°C	source impedance 50 Ω
Storage temperature range	T _{stg}	−45/+125	°C	
DC voltage	V _{DC}	6	V	
Source power	P _S	10	dBm	



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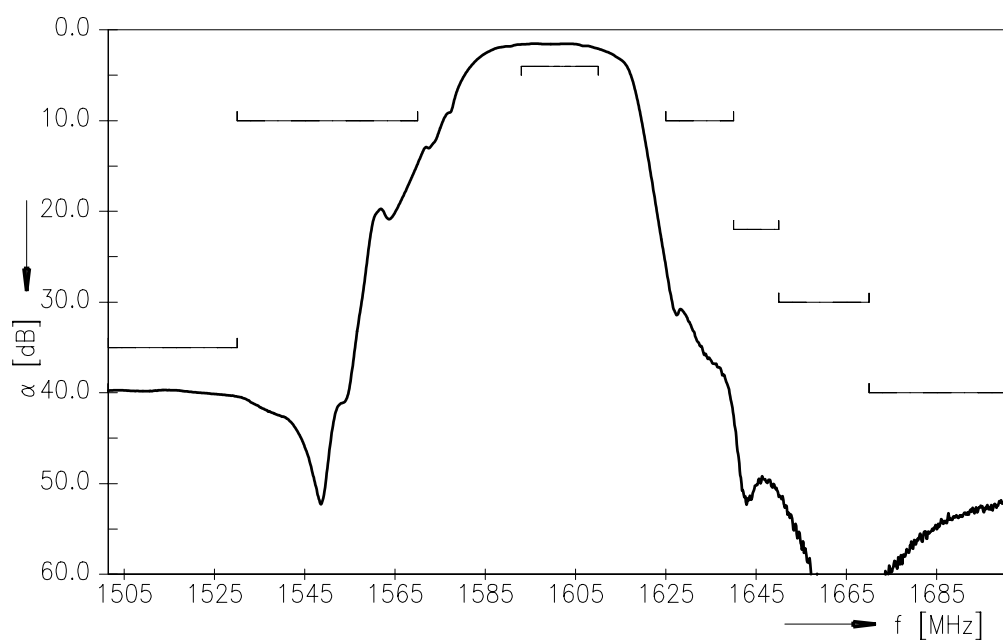
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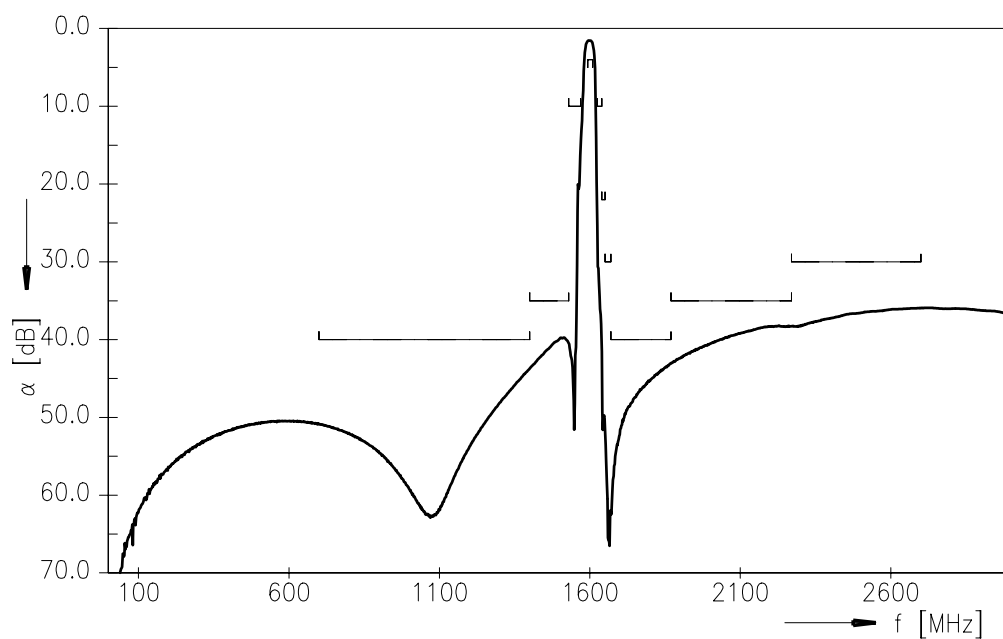
Data sheet



Transfer function



Transfer function (wideband)





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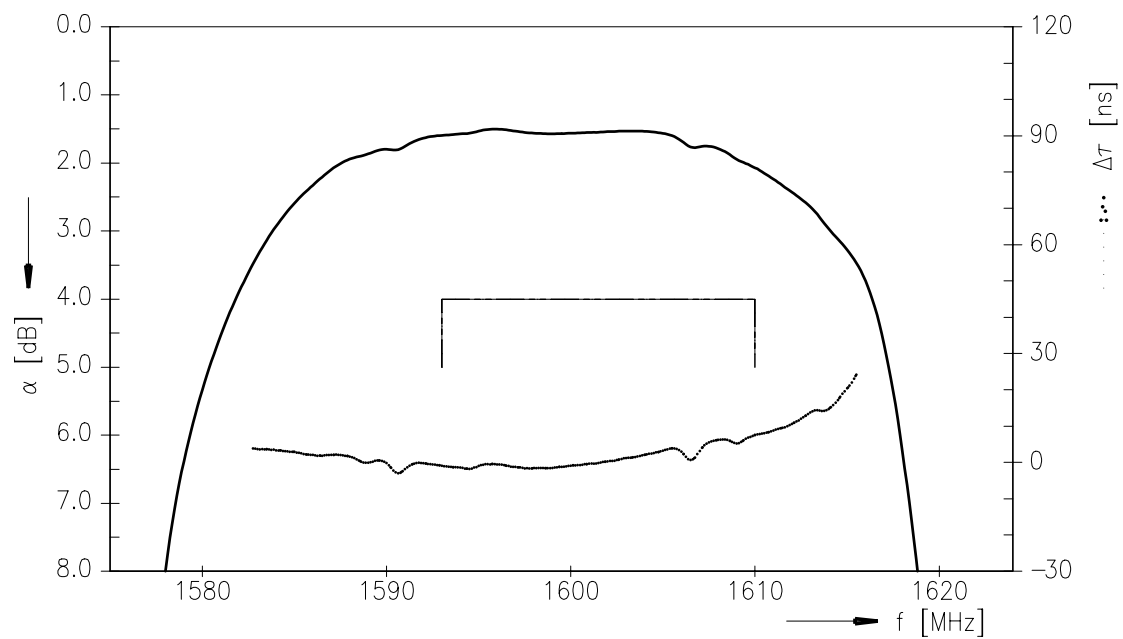
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Data sheet



Transfer function





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References

Type	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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