



SAW Components

SAW RF filter

GPS

Series/type:	B3521
Ordering code:	B39162B3521U410
Date:	March 18, 2010
Version:	2.4

Data sheet



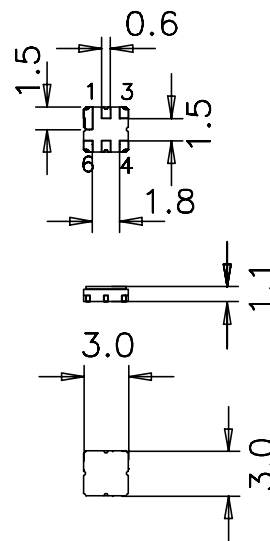
Application

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



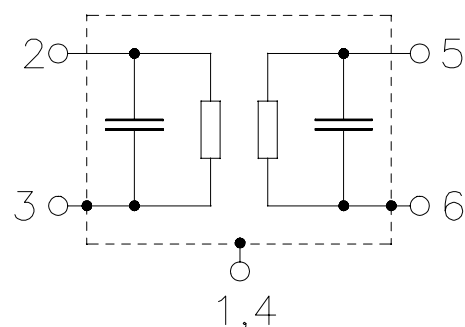
Features

- 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



Data sheet

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	—	1575.42	—	MHz
Maximum insertion attenuation	α _{max}	—	3.2	3.5	dB
1574.42 ... 1576.42 MHz					
Amplitude ripple (p-p)	Δα	—	0.5	1.0	dB
1574.42 ... 1576.42 MHz					
Input VSWR		—	1.9	2.3	
1574.42 ... 1576.42 MHz					
Output VSWR		—	1.9	2.3	
1574.42 ... 1576.42 MHz					
Attenuation	α				dB
100.00 ... 1000.00 MHz		60	70	—	
1500.00 MHz		40	43	—	
1535.42 MHz		35	42	—	
1615.42 MHz		25	33	—	
1640.00 MHz		45	48	—	
1700.00 MHz		50	52	—	

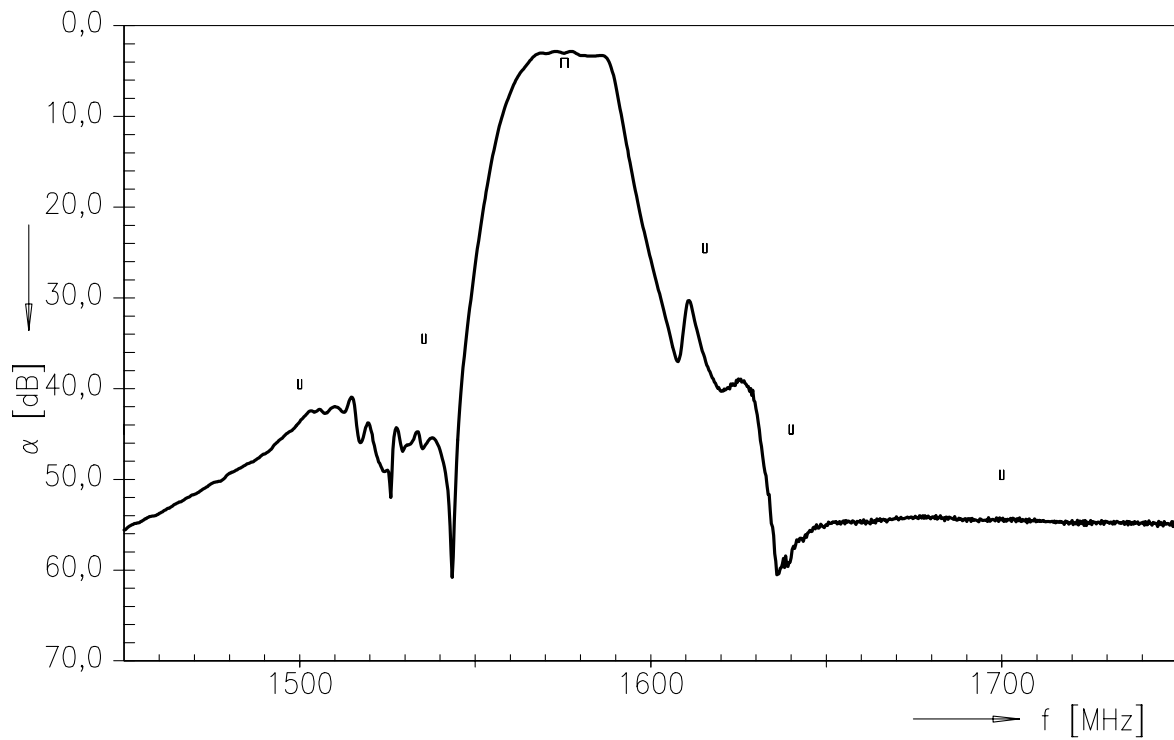
Maximum ratings

Operable temperature range	T	-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 Ω
		20	dBm	824 MHz to 915 MHz, 1710 MHz to 1785 MHz

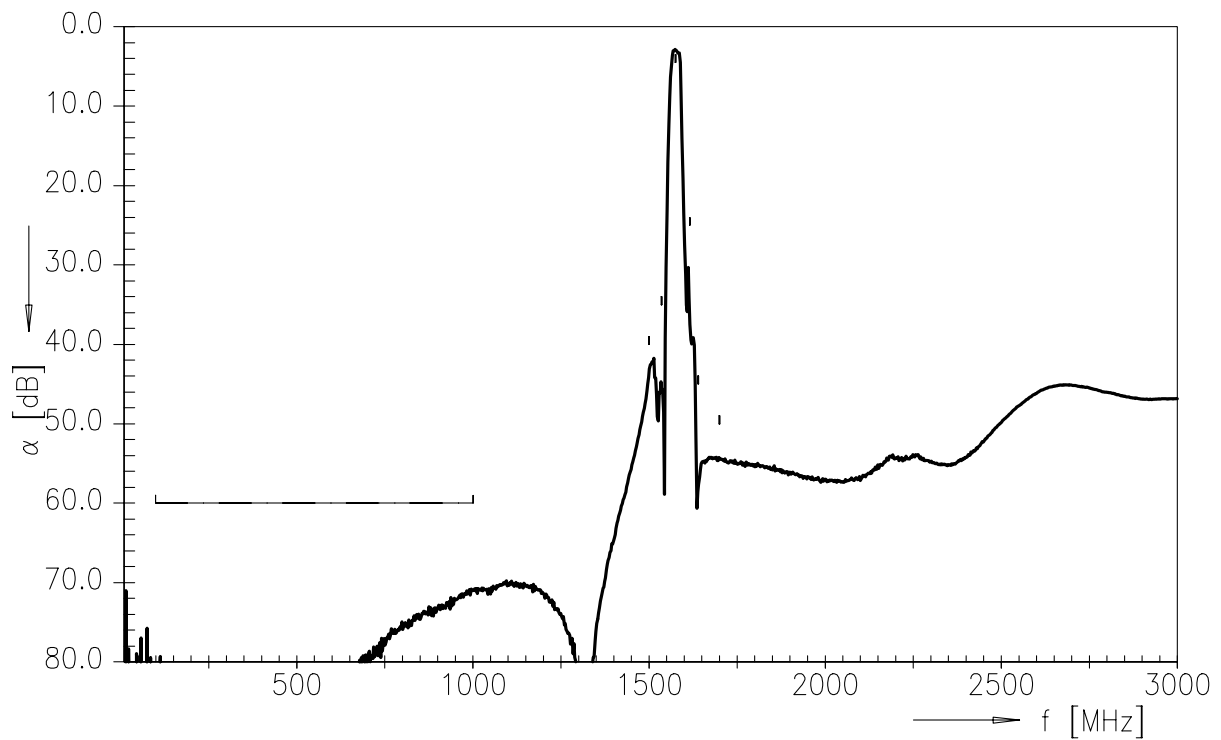
Data sheet



Transfer function



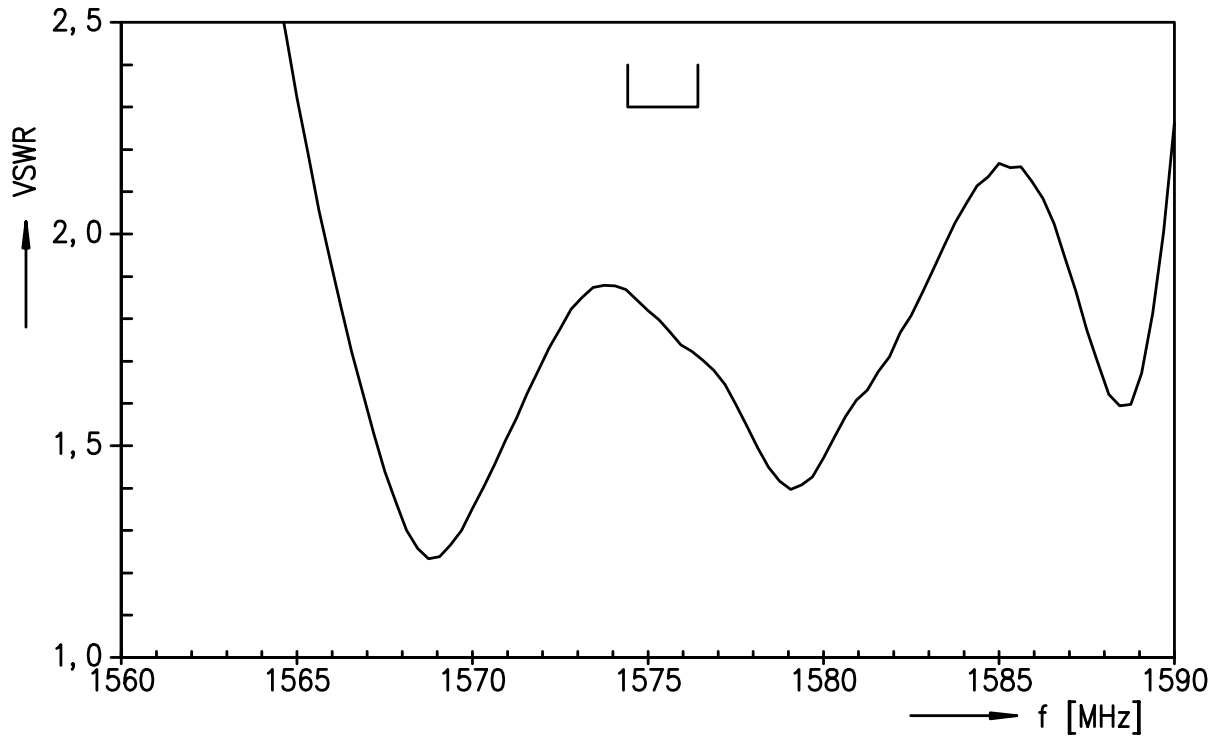
Transfer function (wideband)



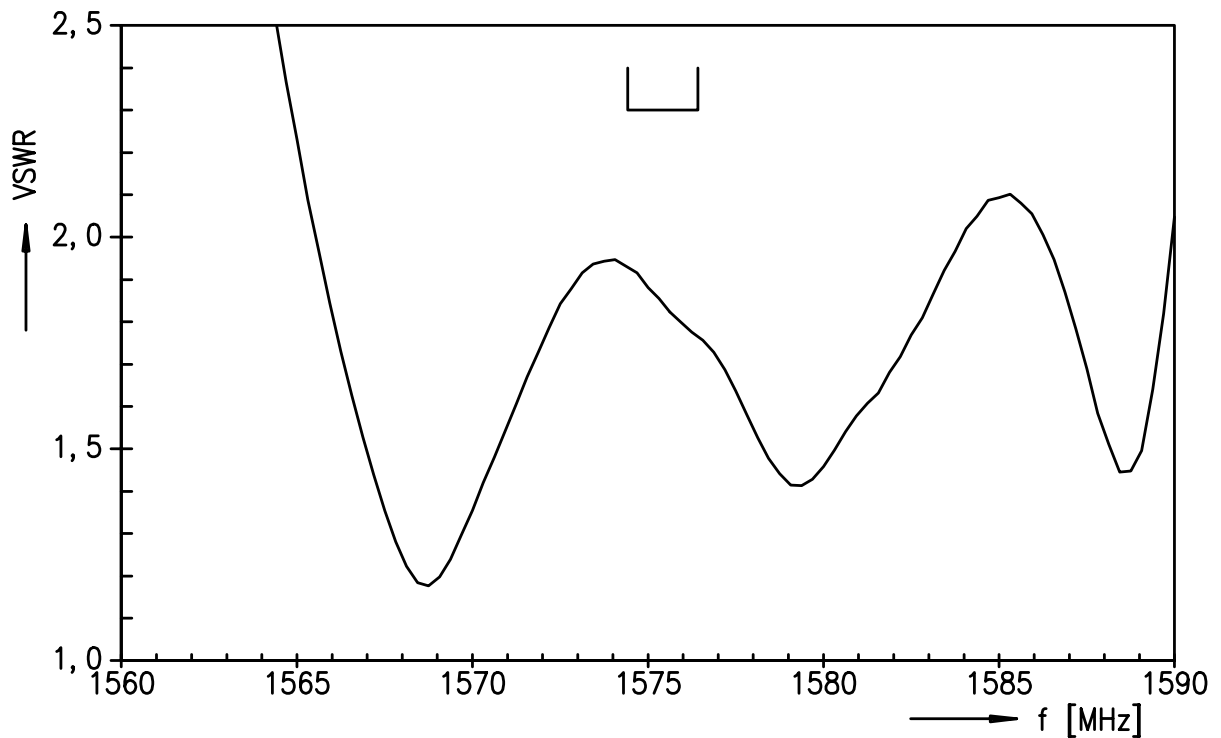
Data sheet



Input VSWR



Output VSWR




References

Type	B3521
Ordering code	B39162B3521U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B3521_NB.s2p B3521_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 .

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