

Data Sheet B3520





Low Loss Filter for Automotive Telematics

1575,42 MHz

Data Sheet

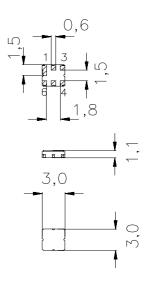
Features

- RF low-loss filter for GPS application
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package
- \blacksquare No matching network required for operation at 50 Ω
- Extended temperature range for automotive application

Terminals

■ Ni, gold plated

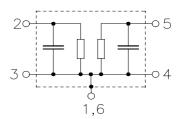
Ceramic package DCC6C



Dimensions in mm, approx. weight 0,1 g

Pin configuration

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



Туре	Ordering code	Marking and Package according to	Packing according to		
B3520	B39162-B3520-U410	C61157-A7-A56	F61074-V8070-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_{Δ}	-40/+105	°C	
Storage temperature range	$T_{\rm stg}$	-40/+105	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	P_{S}	0	dBm	source impedance 50 Ω



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Characteristics

Reference temperature: $T_{\rm A} = -40 \dots +85 \,^{\circ}{\rm C}$ Terminating source impedance: $Z_{\rm S} = 50 \,\Omega$ Terminating load impedance: $Z_{\rm L} = 50 \,\Omega$

		min.	typ.	max.	
Center frequency	f _c	_	1575,42	_	MHz
Maximum insertion attenuation					
1574,221576,62 MHz	α_{max}	_	1,3	1,8	dB
Amplitude ripple (p-p)	Δα				
1574,221576,62 MHz		_	0,1	1,0	dB
Relative attenuation (relative to α_{max})	α_{rel}				
100,001450,00 MHz		40	44	_	dB
1450,001520,00 MHz		30	34	_	dB
1640,001710,00 MHz		25	30	_	dB
1710,001750,00 MHz		35	43	_	dB
1750,001910,00 MHz		42	44	_	dB
1910,002000,00 MHz		40	45	_	dB
Temperature coefficient of frequency	TC_{f}	_	-30	<u> </u>	ppm/K



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Reference temperature:

 $T_A = -40 \dots +105 \,^{\circ}\text{C}$ $Z_S = 50 \,\Omega$ $Z_L = 50 \,\Omega$ Terminating source impedance: Terminating load impedance:

		min.	typ.	max.	
Center frequency	$f_{\rm c}$	_	1575,42	_	MHz
Maximum insertion attenuation					
1574,221576,62 MHz	α_{max}	_	1,3	2,0	dB
Amplitude ripple (p-p)	Δα				
1574,221576,62 MHz		_	0,1	1,0	dB
Relative attenuation (relative to α_{max})	α_{rel}				
100,001450,00 MHz		40	44	_	dB
1450,001520,00 MHz		30	34	_	dB
1640,001710,00 MHz		25	30	_	dB
1710,001750,00 MHz		35	43	_	dB
1750,001910,00 MHz		42	44	_	dB
1910,002000,00 MHz		40	45	_	dB
Temperature coefficient of frequency	TC _f		-30	_	ppm/K



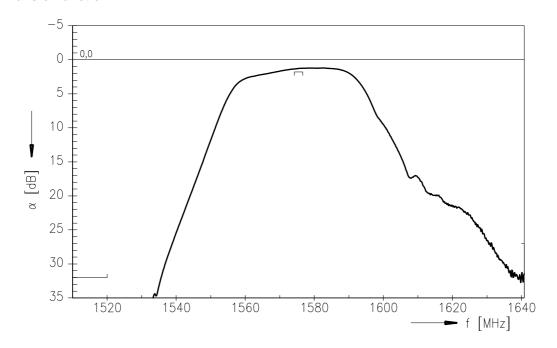
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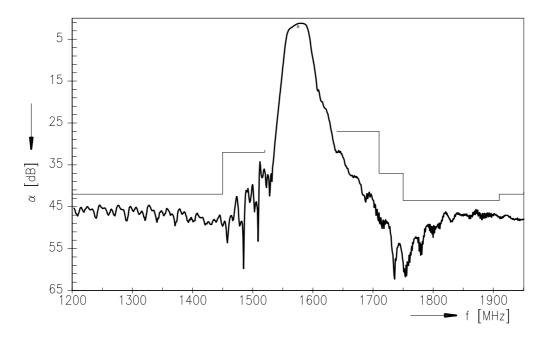
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Transfer function



Transfer function (wideband)





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