

SAW Components

Data Sheet B3520





SAW Components	B3520
Low Loss Filter for Automotive Telematics	1575,42 MHz
Data Sheet	

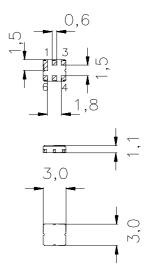
Ceramic package DCC6C

Features

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

Terminals

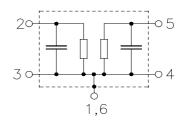
Ni, gold plated



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 _A	-40/+105	°C	
Storage temperature range	T _{stg}	-40/+105	°C	
DC voltage	V _{DC}	0	V	
Source power	Ps	0	dBm	source impedance 50 Ω



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Characteristics

Reference temperature:	T_{A}	= -4	40 +85 °C
Terminating source impedance:	$Z_{\rm S}$	=	50 Ω
Terminating load impedance:	Z_{L}	=	50 Ω

		min.	typ.	max.	
Center frequency	f _c		1575,42		MHz
Maximum insertion attenuation					
1574,221576,62 MHz	$lpha_{max}$	_	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		ppm/K

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Characteristics

Reference temperature:	T _A	= -4	40 +105 °C
Terminating source impedance:	Z_{S}	=	50Ω
Terminating load impedance:	$Z_{\rm L}$	=	50 Ω

		min.	typ.	max.	
Center frequency	f _c		1575,42	_	MHz
Maximum insertion attenuation					
1574,221576,62 MHz	$lpha_{max}$	_	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})	$lpha_{ m rel}$				
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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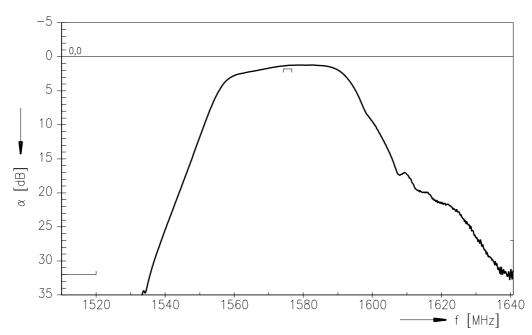
520 MHz



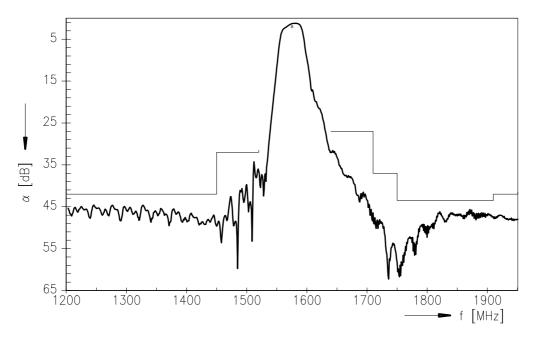
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Transfer function



Transfer function (wideband)



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This brochure replaces the previous edition.

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