



SAW Components

Data Sheet B3520





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Low Loss Filter for Automotive Telematics

1575,42 MHz

Data Sheet

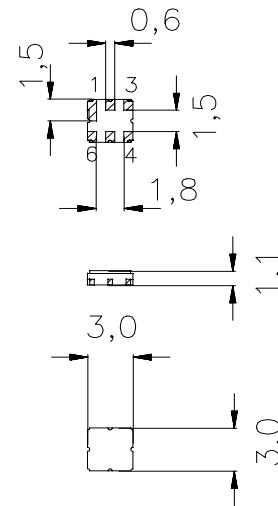
Ceramic package **DCC6C**

Features

- RF low-loss filter for GPS application
- Package for **S**urface **M**ounted **T**echnology (**SMT**)
- Hermetically sealed ceramic package
- No matching network required for operation at 50 Ω
- Extended temperature range for automotive application

Terminals

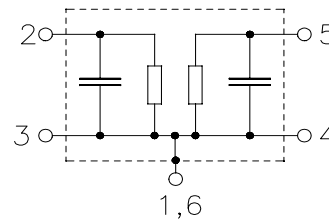
- Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

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



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

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T_A	-40/+105	°C	source impedance 50 Ω
Storage temperature range	T_{stg}	-40/+105	°C	
DC voltage	V_{DC}	0	V	
Source power	P_S	0	dBm	



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Characteristics

Reference temperature: $T_A = -40 \dots +85 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \Omega$
 Terminating load impedance: $Z_L = 50 \Omega$

		min.	typ.	max.	
Center frequency	f_c	—	1575,42	—	MHz
Maximum insertion attenuation					
	1574,22 ... 1576,62 MHz α_{\max}	—	1,3	1,8	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
	1574,22 ... 1576,62 MHz	—	0,1	1,0	dB
Relative attenuation (relative to α_{\max})	α_{rel}				
	100,00 ... 1450,00 MHz	40	44	—	dB
	1450,00 ... 1520,00 MHz	30	34	—	dB
	1640,00 ... 1710,00 MHz	25	30	—	dB
	1710,00 ... 1750,00 MHz	35	43	—	dB
	1750,00 ... 1910,00 MHz	42	44	—	dB
	1910,00 ... 2000,00 MHz	40	45	—	dB
Temperature coefficient of frequency	TC_f	—	-30	—	ppm/K



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Characteristics

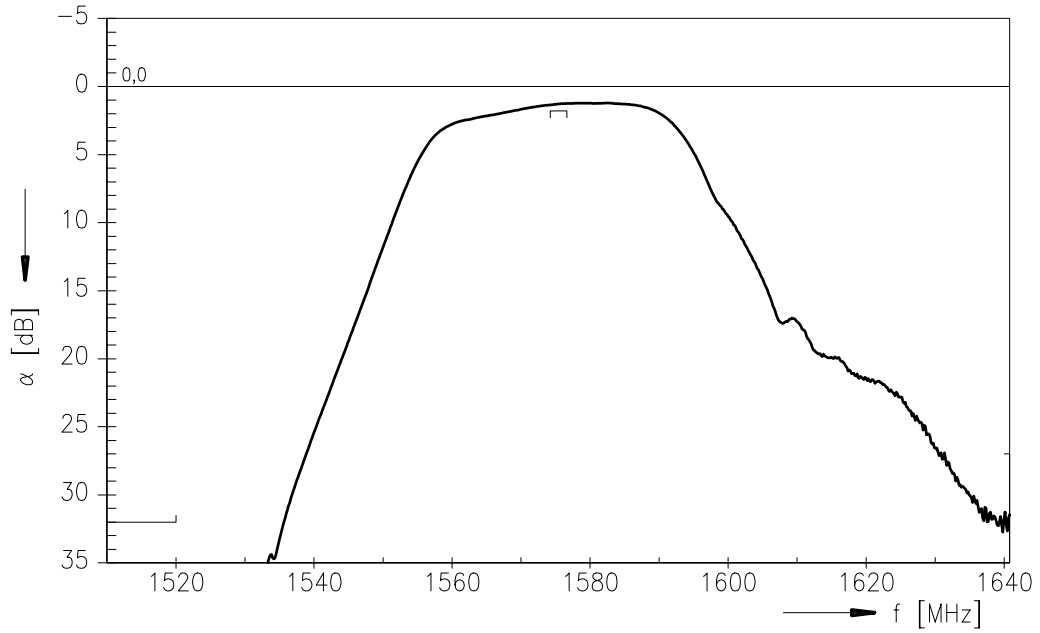
Reference temperature: $T_A = -40 \dots +105 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \Omega$
 Terminating load impedance: $Z_L = 50 \Omega$

		min.	typ.	max.	
Center frequency	f_c	—	1575,42	—	MHz
Maximum insertion attenuation					
1574,22 ... 1576,62 MHz	α_{\max}	—	1,3	2,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1574,22 ... 1576,62 MHz		—	0,1	1,0	dB
Relative attenuation (relative to α_{\max})	α_{rel}				
100,00 ... 1450,00 MHz		40	44	—	dB
1450,00 ... 1520,00 MHz		30	34	—	dB
1640,00 ... 1710,00 MHz		25	30	—	dB
1710,00 ... 1750,00 MHz		35	43	—	dB
1750,00 ... 1910,00 MHz		42	44	—	dB
1910,00 ... 2000,00 MHz		40	45	—	dB
Temperature coefficient of frequency	TC_f	—	-30	—	ppm/K

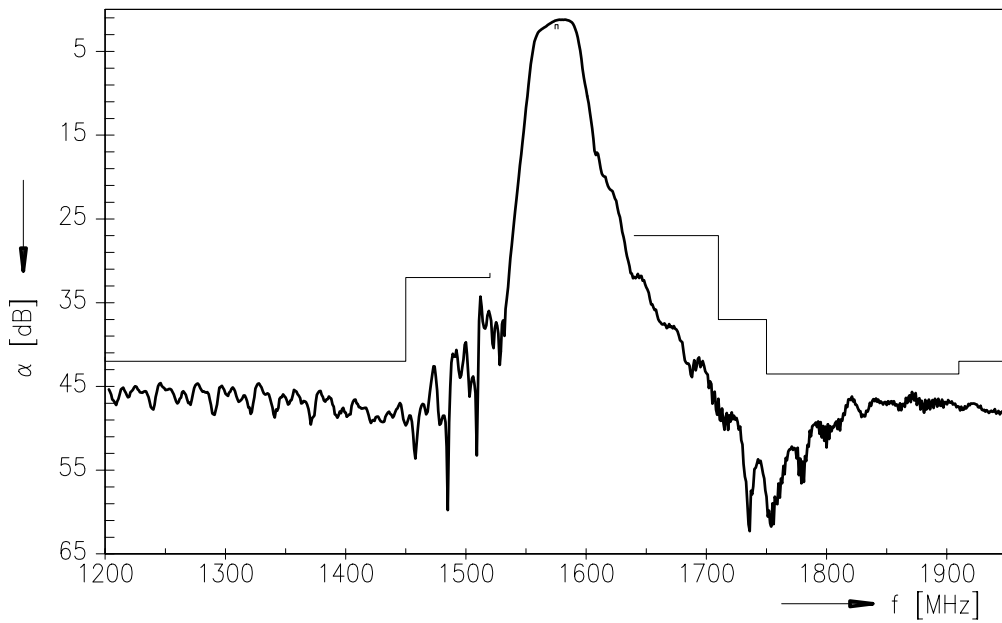


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Transfer function



Transfer function (wideband)





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