EPCOS

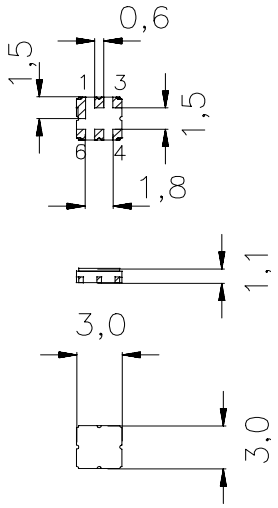
SAW Components

Data Sheet B3520

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



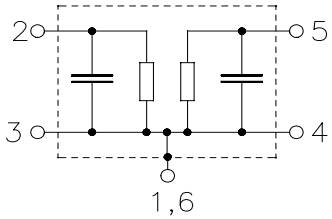
Dimensions in mm, approx. weight 0,1 g

Terminals

- Ni, gold plated

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

Characteristics

Reference temperature: T_A = -40 ... +85 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

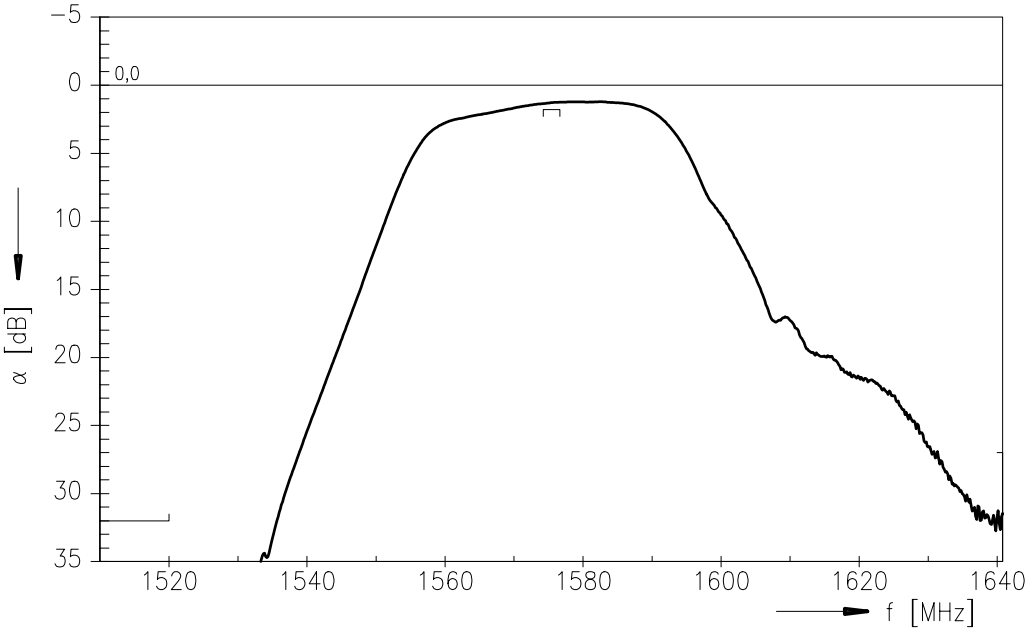
		min.	typ.	max.	
Center frequency	f_c	—	1575,42	—	MHz
Maximum insertion attenuation					
1574,22 ...1576,62 MHz	α_{max}	—	1,3	1,8	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1574,22 ...1576,62 MHz		—	0,1	1,0	dB
Relative attenuation (relative to α_{max})	α_{rel}				
100,00 ...1450,00 MHz		40	44	—	dB
1450,00 ...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

Characteristics

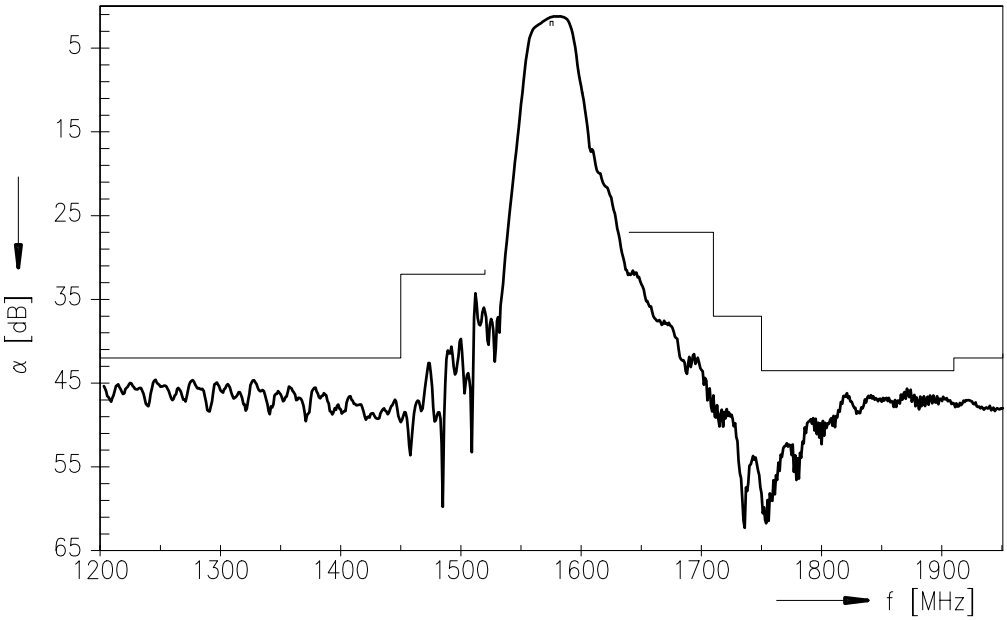
Reference temperature: T_A = -40 ... +105 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		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

Transfer function



Transfer function (wideband)



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This brochure replaces the previous edition.

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