



SAW Components

Data Sheet B3520

Data Sheet

An abstract, grayscale graphic featuring a globe with a grid pattern, overlaid with a large, stylized, and slightly blurred "EPCOS" logo. The logo is rendered in a light gray, almost white, color, giving it a three-dimensional appearance as if it's floating or attached to the globe. The background is dark and textured, with some light streaks and a sense of motion or depth.

EPCOS



SAW Components

B3520

Low Loss Filter for Automotive Telematics

1575,42 MHz

Data Sheet

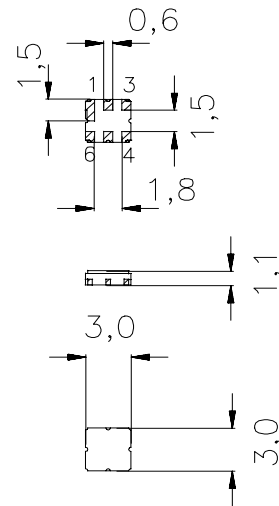
Ceramic package **DCC6C**

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

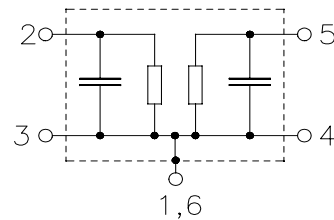
- Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

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



Type	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	$^{\circ}\text{C}$	source impedance 50 Ω
Storage temperature range	T_{stg}	-40/+105	$^{\circ}\text{C}$	
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	$\alpha_{\max}$	—	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 $\alpha_{\max}$)	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	$\alpha_{\max}$	—	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 $\alpha_{\max}$)	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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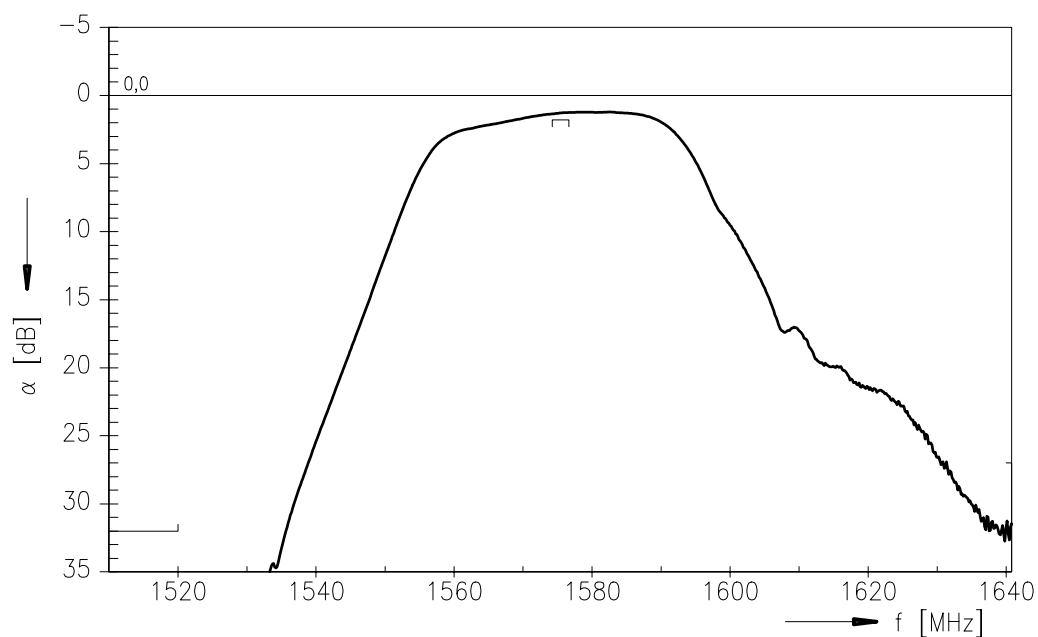
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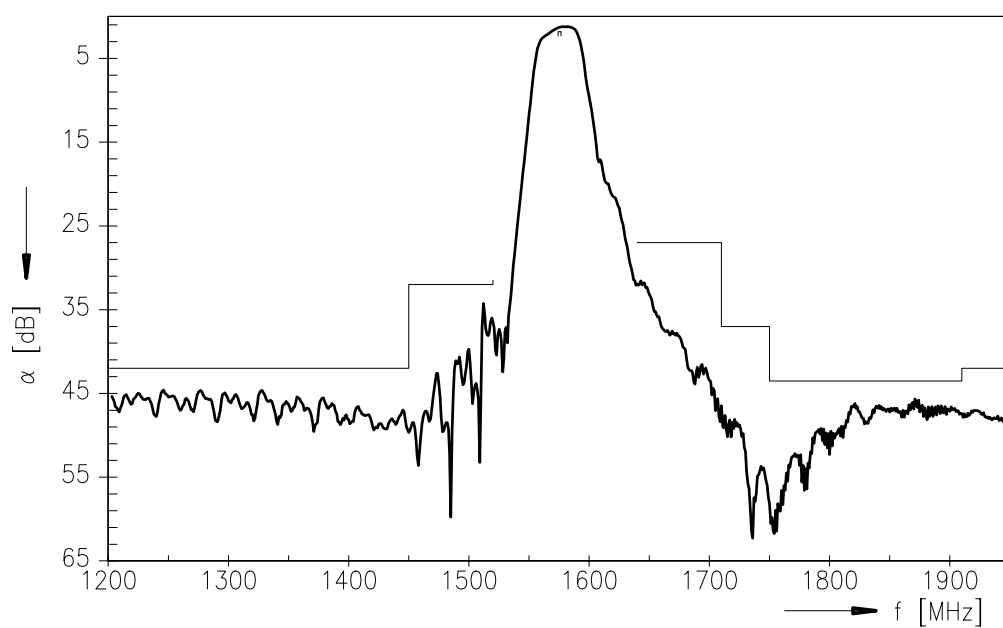
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Transfer function



Transfer function (wideband)





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