



SAW Components

Data Sheet B4050

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a bright, circular highlight in the center of each, giving them a three-dimensional appearance. They are set against a dark, textured background that includes a faint, glowing globe and circuitry patterns, suggesting a high-tech or electronic theme.



SAW Components	B4050
Low Loss Filter	1575.42 MHz

Data Sheet



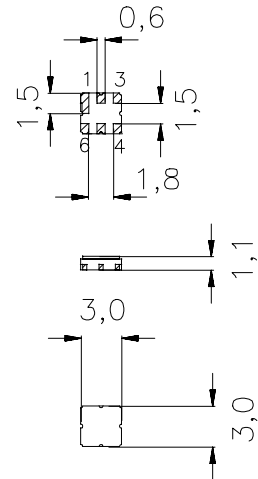
Ceramic package **DCC6D**

Features

- Low loss RF filter for GPS receivers
- Usable passband 2,4 MHz
- Low insertion attenuation, low amplitude ripple
- Unbalanced to balanced operation
- Ceramic package for **Surface Mounted Technology (SMT)**

Terminals

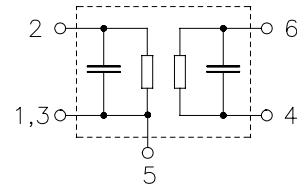
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

2	Input, unbalanced
4, 6	Output, balanced
1, 3, 5	To be grounded
1, 3, 5	Case ground



Type	Ordering code	Marking and Package according to	Packing according to
B4050	B39162-B4050-U510	C61157-A7-A68	F61074-V8089-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	-40 / +85	°C	
Storage temperature range	T_{stg}	-40 / +85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_S	0	dBm	source impedance 50 Ω



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Characteristics

Operating temperature range: $T = -40\text{ °C to }+85\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$ (balanced)

		min.	typ.	max.	
Center frequency	f_C	—	1575,42	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$				
	1574,22 ...1576,62 MHz	—	3,3	3,8	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
	1574,22 ...1576,62 MHz	—	0,3	1,0	dB
Attenuation	α				
	0,00 ...1250,00 MHz	50,0	60,0	—	dB
	1425,00 ...1525,00 MHz	37,0	50,0	—	dB
	1525,00 ...1535,42 MHz	30,0	44,0	—	dB
	1615,42 ...1625,00 MHz	20,0	44,0	—	dB
	1625,00 ...1675,00 MHz	37,0	46,0	—	dB
	1675,00 ...1850,00 MHz	40,0	60,0	—	dB
	1850,00 ...1910,00 MHz	50,0	60,0	—	dB
	1910,00 ...2500,00 MHz	40,0	55,0	—	dB
	2500,00 ...4000,00 MHz	20,0	52,0	—	dB



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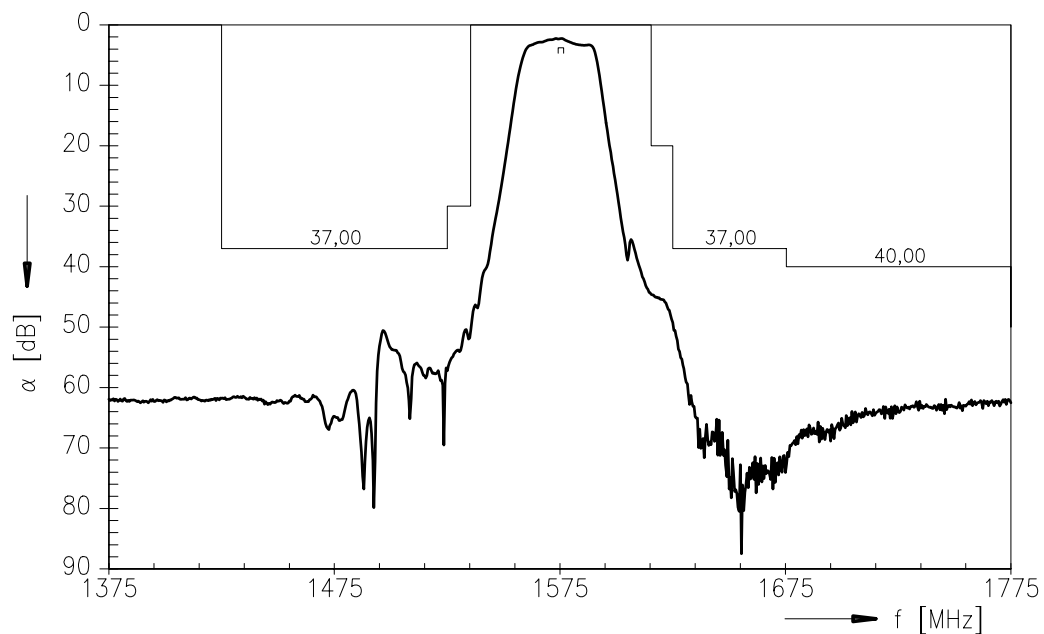
Low Loss Filter

1575.42 MHz

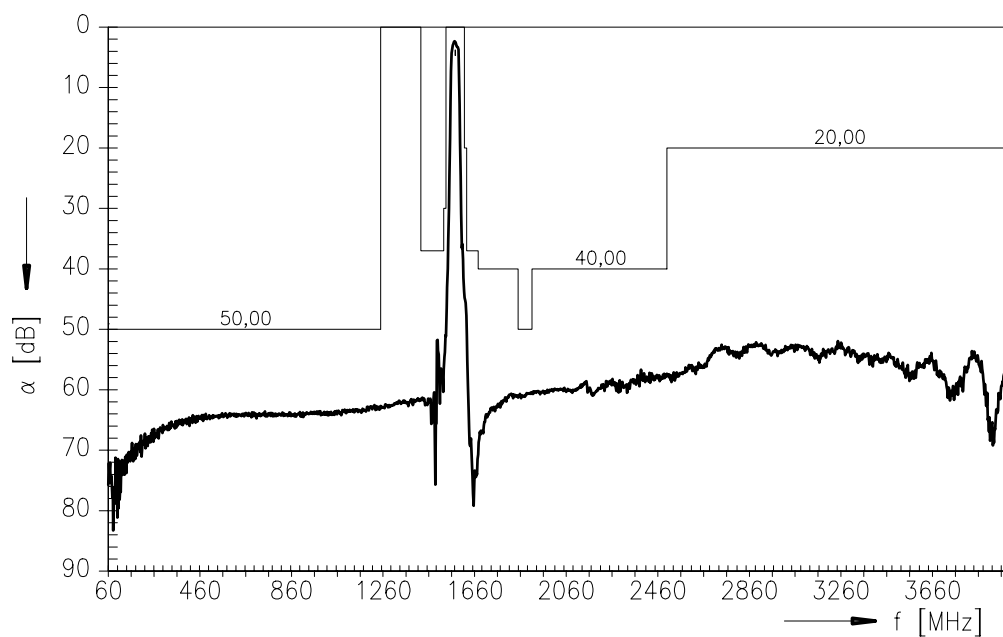
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Transfer function



Transfer function (wide band)





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Data Sheet	SMD

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