



SAW Components

Data Sheet B4050





SAW Components	B4050
Low Loss Filter	1575.42 MHz

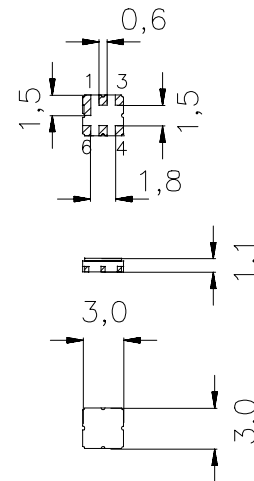
Data Sheet



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)**



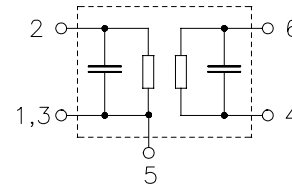
Terminals

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



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



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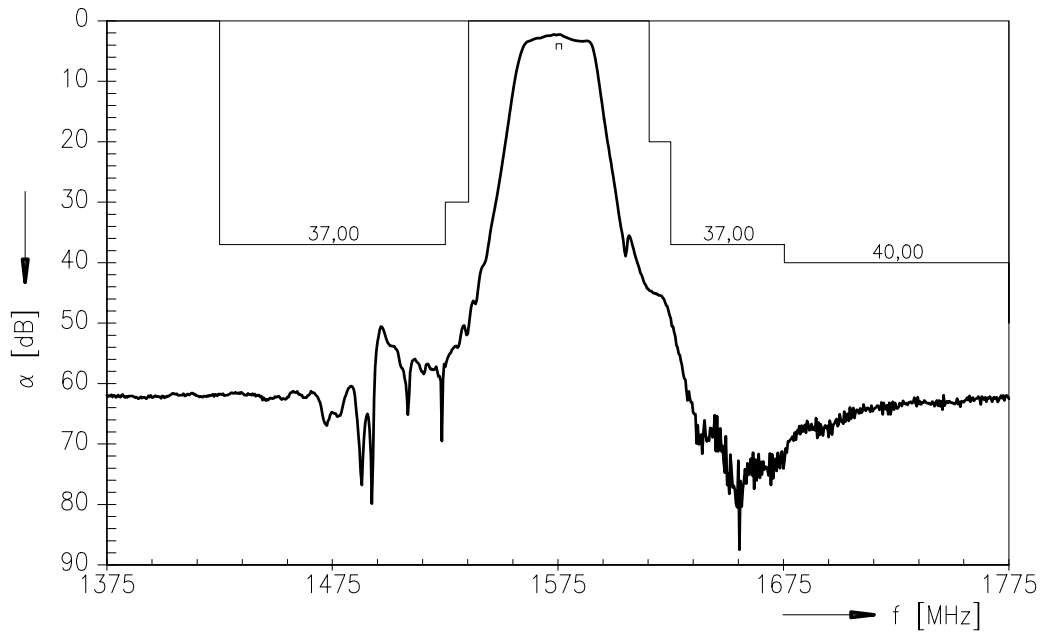
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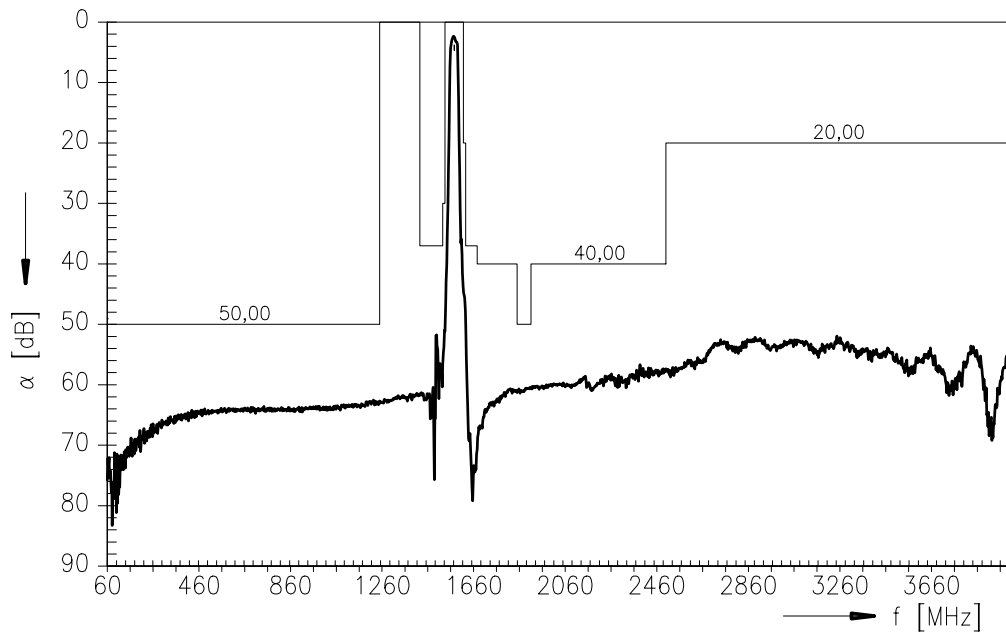
Data Sheet



Transfer function



Transfer function (wide band)





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Published by EPCOS AG

Surface Acoustic Wave Components Division, OFW E NK

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