



SAW Components

Data Sheet B4031

Data Sheet

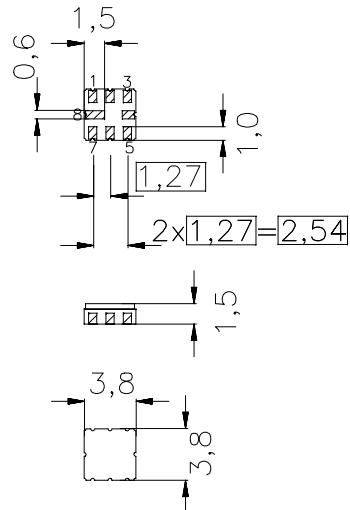


SAW Components
B4031
Low-Loss Filter
1575,42 MHz
Data Sheet
SMD ceramic package QCC8B
Features

- Low loss RF filter for GPS receivers
- Usable passband 2,4 MHz
- Unbalanced to balanced operation
- Package for **Surface Mounted Technology (SMT)**

Terminals

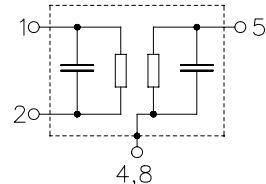
- Ni, gold-plated



Dimensions in mm, approx. weight 0,07

Pin configuration

1	Output
2	Output
5	Input
3, 6, 7	To be grounded
4, 8	Case - ground



Type	Ordering code	Marking and Package according to	Packing according to
B4031	B39162-B4031-Z810	C61157-A7-A46	F61074-V8037-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

**SAW Components****B4031****Low-Loss Filter****1575,42 MHz****Data Sheet****Characteristics**

Operating temperature range: $T = -40 \text{ }^{\circ}\text{C} \text{ to } 85 \text{ }^{\circ}\text{C}$
Terminating source impedance: $Z_S = 50 \Omega \parallel 0,3 \text{ pF}$
Terminating load impedance: $Z_L = 50 \Omega \parallel 0,4 \text{ pF}$

		min.	typ.	max.	
Center frequency	f_c	—	1575,42	—	MHz
Maximum insertion attenuation	α_{\max}	—	5,4	6,0	dB
1574,22MHz ... 1576,62 MHz					
Amplitude ripple in passband (p-p)	$\Delta\alpha$	—	0,3	1,0	dB
1574,22MHz ... 1576,62 MHz					
Attenuation	α				
0,0 MHz ... 1250,0 MHz	55	60	—	—	dB
1425,0 MHz ... 1525,0 MHz	40	45	—	—	dB
1625,0 MHz	33	39	—	—	dB
DC resistance from any pin to ground	R		5,6	—	kΩ

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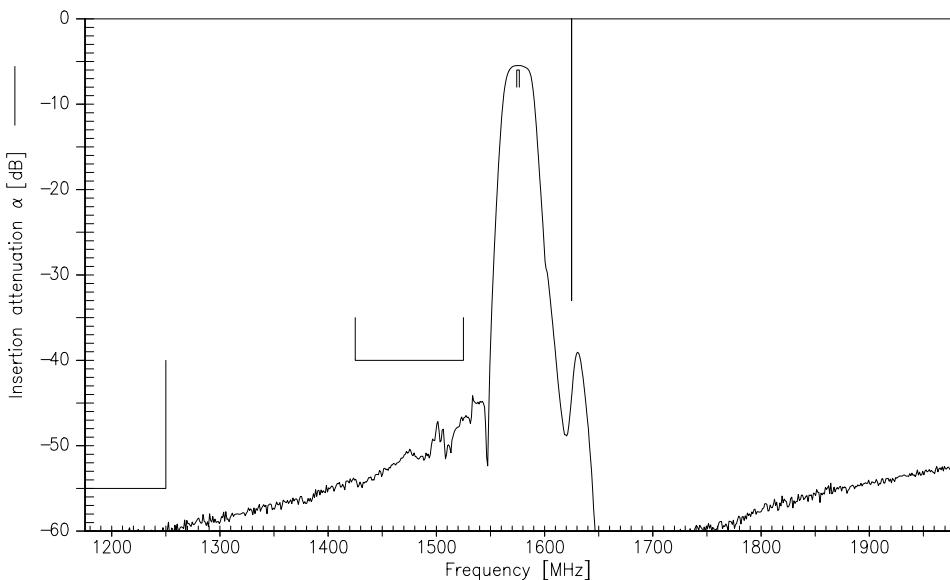
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Low-Loss Filter

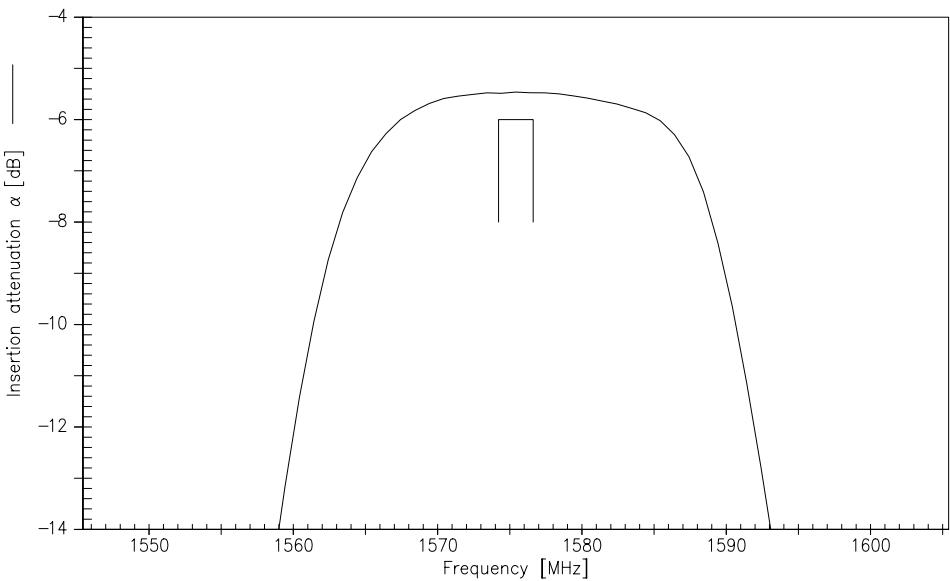
1575,42 MHz

Data Sheet

Transfer function



Transfer function (pass band)





SAW Components

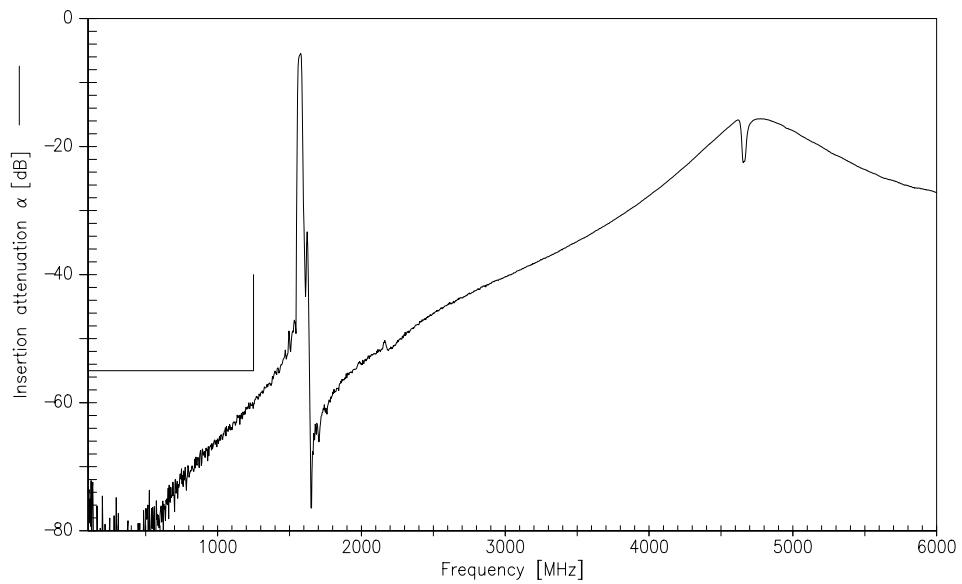
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Transfer function (wideband)





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Low-Loss Filter

1575,42 MHz

Data Sheet

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Surface Acoustic Wave Components Division, SAW MC IS

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