



SAW Components

Data Sheet B4031





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B4031

Low-Loss Filter

1575,42 MHz

Data Sheet

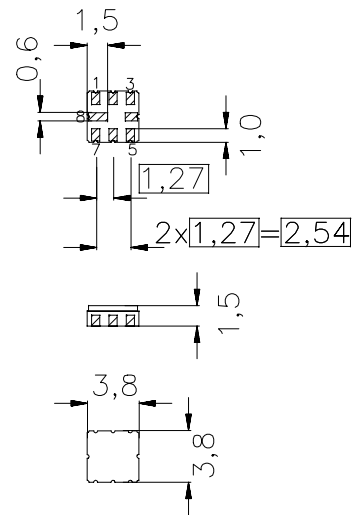
SMD ceramic package **QCC8B**

Features

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

Terminals

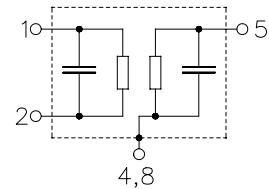
- Ni, gold-plated



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	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

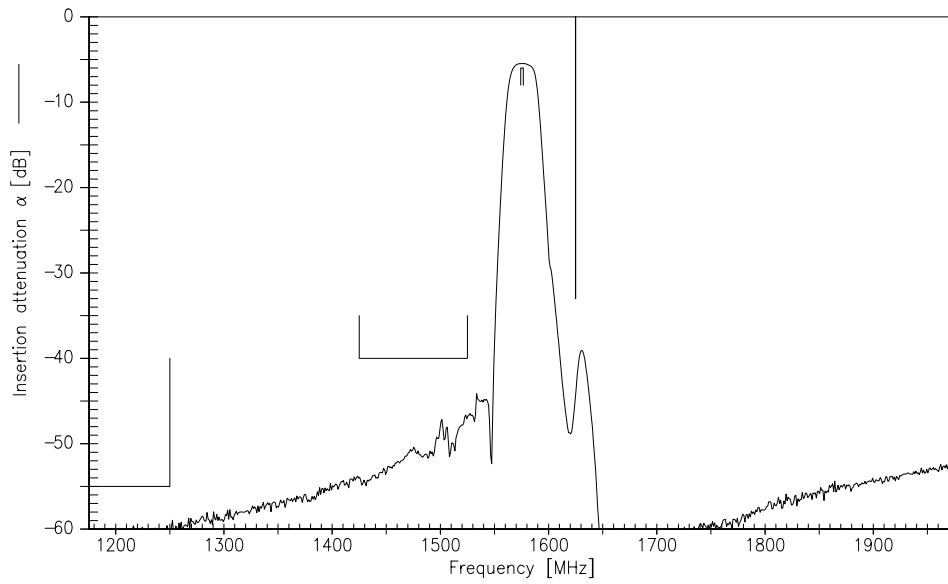
Operating temperature range: $T = -40\text{ °C to }85\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega \parallel 0,3\text{ pF}$
 Terminating load impedance: $Z_L = 50\ \Omega \parallel 0,4\text{ pF}$

				min.	typ.	max.	
Center frequency	f_c			—	1575,42	—	MHz
Maximum insertion attenuation	α_{max}	1574,22MHz ...	1576,62 MHz	—	5,4	6,0	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$	1574,22MHz ...	1576,62 MHz	—	0,3	1,0	dB
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		k Ω

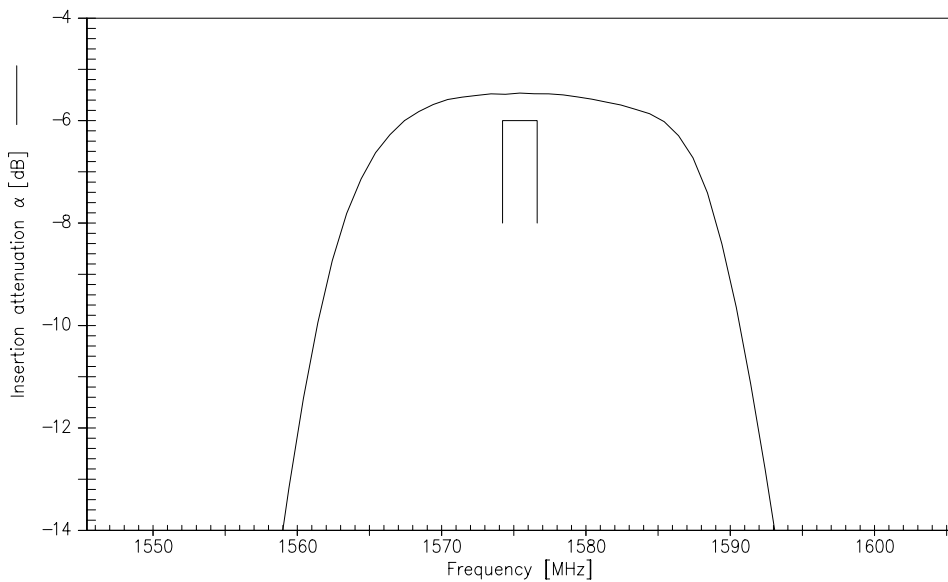


Data Sheet

Transfer function



Transfer function (pass band)





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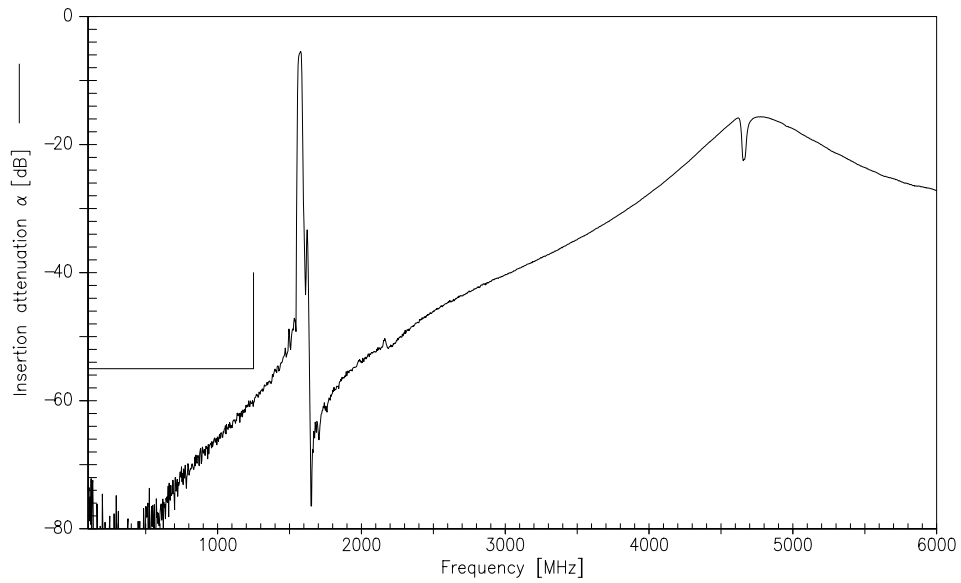
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Transfer function (wideband)





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Surface Acoustic Wave Components Division, SAW MC IS

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