



SAW Components

Data Sheet B4031

Data Sheet

A large, stylized, and somewhat abstract graphic of the EPCOS logo. The letters "EPCOS" are rendered in a bold, sans-serif font, appearing to be part of a larger, curved structure that resembles a stylized globe or a series of overlapping planes. The graphic is in grayscale and has a soft, glowing effect.



SAW Components

B4031

Low-Loss Filter

1575,42 MHz

Data Sheet

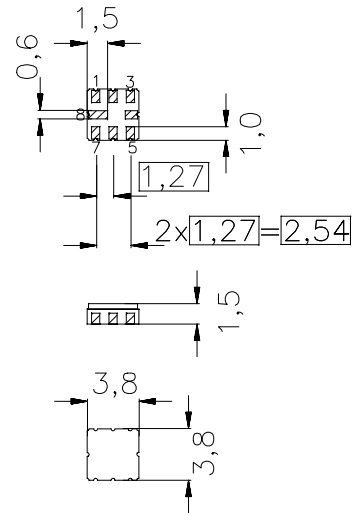
SMD ceramic package **QCC8B**

Features

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

Terminals

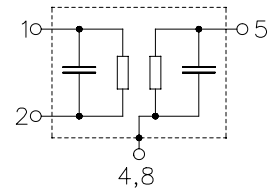
- Ni, gold-plated



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	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



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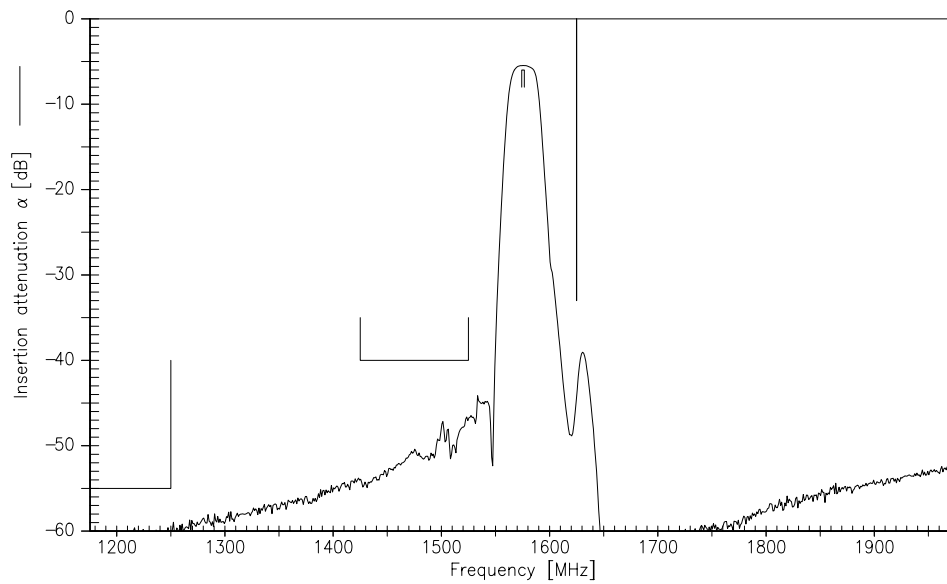
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Low-Loss Filter

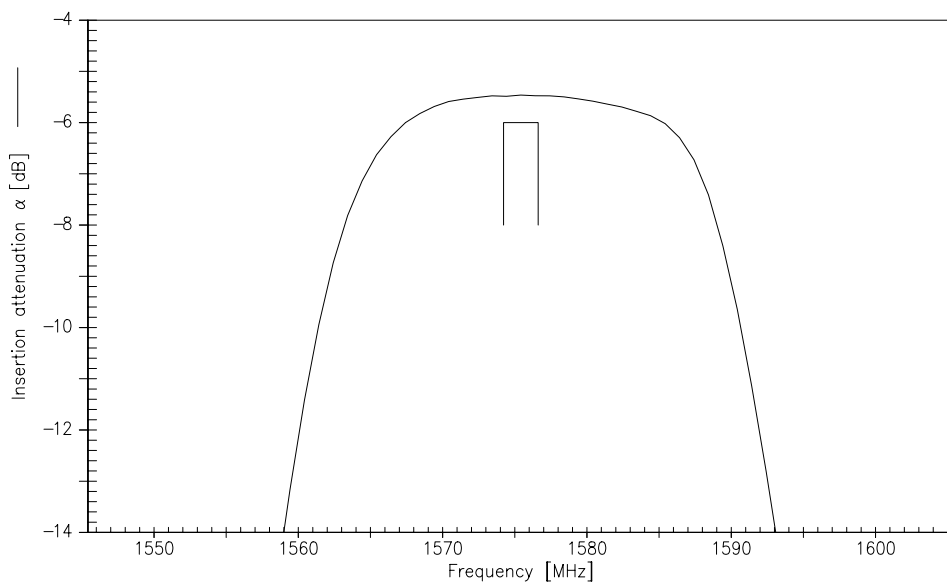
1575,42 MHz

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Transfer function



Transfer function (pass band)





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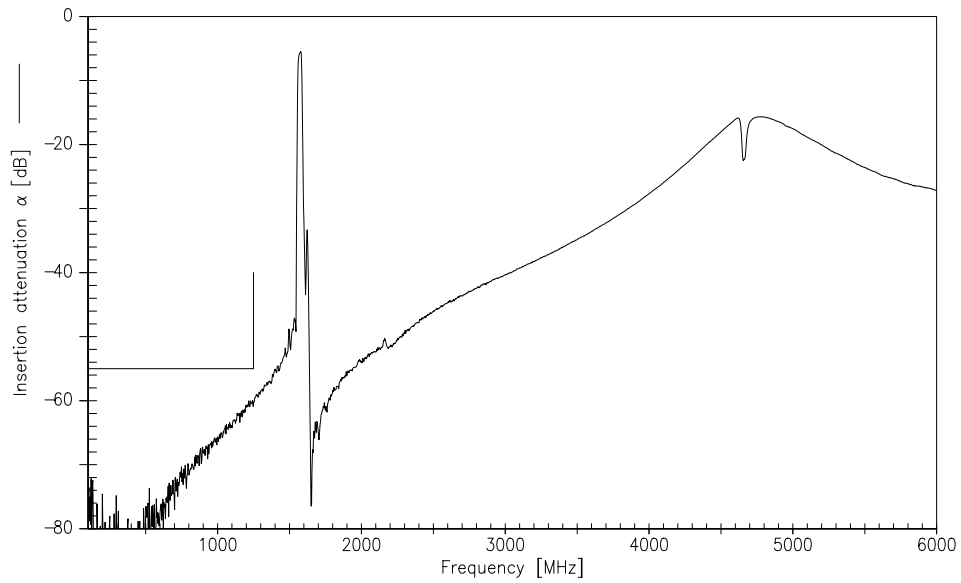
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Transfer function (wideband)





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