



# *SAW Components*

*Data Sheet B4058*

Data Sheet

An abstract, grayscale graphic featuring a globe with a grid pattern, overlaid with a large, stylized, and slightly blurred "EPCOS" logo. The logo is rendered in a light gray, almost white, color, giving it a three-dimensional appearance as if it's floating or attached to the globe. The background is dark and textured, with some light streaks and a sense of motion or depth.

EPCOS



|                        |                   |
|------------------------|-------------------|
| <b>SAW Components</b>  | <b>B4058</b>      |
| <b>Low Loss Filter</b> | <b>1575.0 MHz</b> |

PreliminaryData Sheet



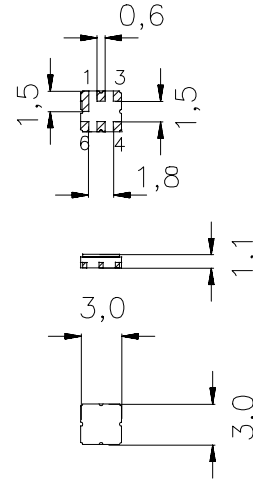
Ceramic package **DCC6D**

#### Features

- Low loss RF filter for GPS receivers
- Usable passband 20 MHz
- Low insertion attenuation, low amplitude ripple
- Unbalanced to balanced operation
- Ceramic package for **Surface Mounted Technology (SMT)**

#### Terminals

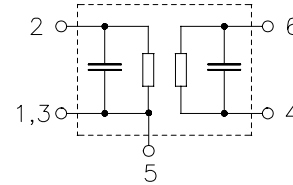
- Ni, gold-plated



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 |
|-------|-------------------|----------------------------------|----------------------|
| B4058 | B39162-B4058-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 $\Omega$ |



# SAW Components

B4058

## Low Loss Filter

1575.0 MHz

Preliminary Data Sheet



### 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. |     |
|--------------------------------------|-----------------|--|------|--------|------|-----|
| <b>Center frequency</b>              | $f_c$           |  | —    | 1575,0 | —    | MHz |
| <b>Maximum insertion attenuation</b> | $\alpha_{\max}$ |  |      |        |      |     |
| 1565,0 ... 1585,0 MHz                |                 |  | —    | 4,0    | 4,5  | dB  |
| <b>Amplitude ripple (p-p)</b>        | $\Delta\alpha$  |  |      |        |      |     |
| 1565,0 ... 1585,0 MHz                |                 |  | —    | 1,2    | 1,5  | dB  |
| <b>Absolute attenuation</b>          | $\alpha$        |  |      |        |      |     |
| 0,0 ... 1000,0 MHz                   |                 |  | 40,0 | 47,0   | —    | dB  |
| 1000,0 ... 1435,0 MHz                |                 |  | 32,0 | 39,0   | —    | dB  |
| 1435,0 ... 1525,0 MHz                |                 |  | 25,0 | 36,0   | —    | dB  |
| 1525,0 ... 1540,0 MHz                |                 |  | 7,0  | 36,0   | —    | dB  |
| 1610,0 ... 1625,0 MHz                |                 |  | 7,0  | 19,0   | —    | dB  |
| 1625,0 ... 1715,0 MHz                |                 |  | 25,0 | 32,0   | —    | dB  |
| 1715,0 ... 1785,0 MHz                |                 |  | 34,0 | 40,0   | —    | dB  |
| 1785,0 ... 2200,0 MHz                |                 |  | 30,0 | 36,0   | —    | dB  |
| 2200,0 ... 2500,0 MHz                |                 |  | 27,0 | 34,0   | —    | dB  |
| 2500,0 ... 4000,0 MHz                |                 |  | 18,0 | 25,0   | —    | dB  |



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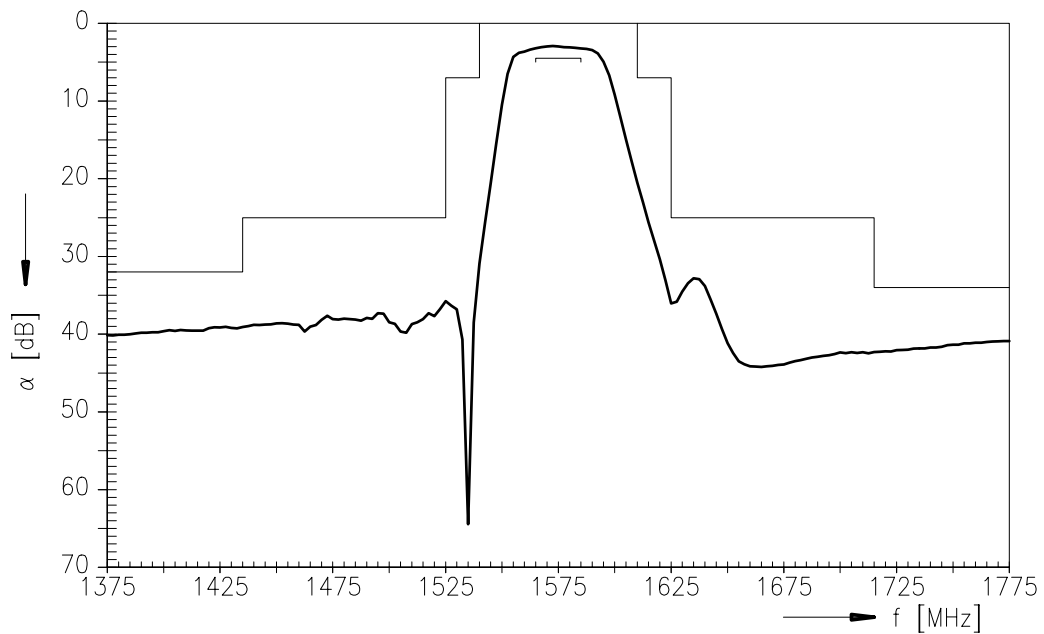
Low Loss Filter

1575.0 MHz

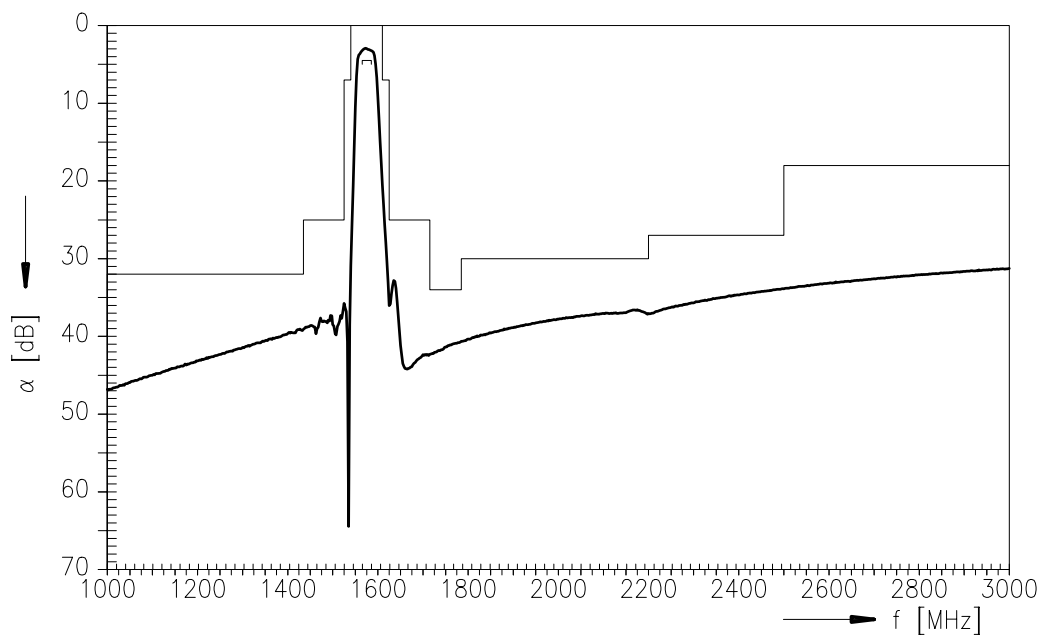
Preliminary Data Sheet



### Transfer function



### Transfer function (wide band)





|                               |                   |
|-------------------------------|-------------------|
| <b>SAW Components</b>         | <b>B4058</b>      |
| <b>Low Loss Filter</b>        | <b>1575.0 MHz</b> |
| <b>Preliminary Data Sheet</b> | <b>SMD</b>        |

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**P.O. Box 80 17 09, D-81617 München**

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