



# *SAW Components*

*Data Sheet B4066*

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The letters "EPCOS" are rendered in a white, glowing, sans-serif font, appearing to be part of a larger, curved structure that resembles a globe or a stylized wave. The background is dark and textured, with a faint map of the world visible.



**SAW Components**

**B4066**

**Low Loss Filter**

**1542,0 MHz**

**Data Sheet**



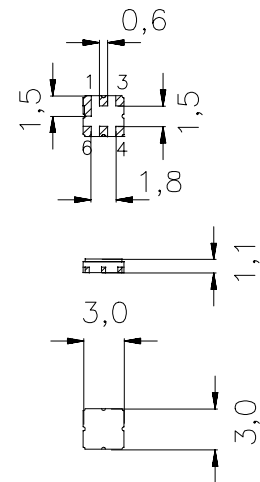
**Ceramic Package DCC6D**

**Features**

- Low loss RF filter
- Usable passband 34 MHz
- Low insertion attenuation, low amplitude ripple
- Unbalanced to balanced operation
- Package for **Surface Mounted Technology (SMT)**
- RoHS compliant

**Terminals**

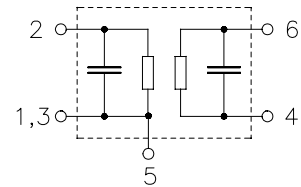
- Ni, gold-plated



Dimensions in mm, approx. weight 37 mg

**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 |
|-------|-------------------|----------------------------------|----------------------|
| B4066 | B39152-B4066-U510 | C61157-A7-A68                    | F61074-V8168-Z000    |

**Electrostatic Sensitive Device (ESD)**

**Maximum ratings**

|  |             |           |     |  |
|--|-------------|-----------|-----|--|
| Operable temperature range                                       | $T$         | -40 / +85 | °C  | Machine Model, 10 pulses<br>effective power in the on-state,<br>duty cycle 4:8 |
| Storage temperature range  | $T_{stg}$   | -40 / +85 | °C  |  |
| DC voltage   | $V_{DC}$    | 0         | V   |  |
| ESD voltage  | $V^*_{ESD}$ | 50*       | V   |  |
| Input Power at<br>GSM850, GSM900<br>GSM1800, GSM1900<br>Tx bands | $P_{IN}$    | 15        | dBm |  |

\*-acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses



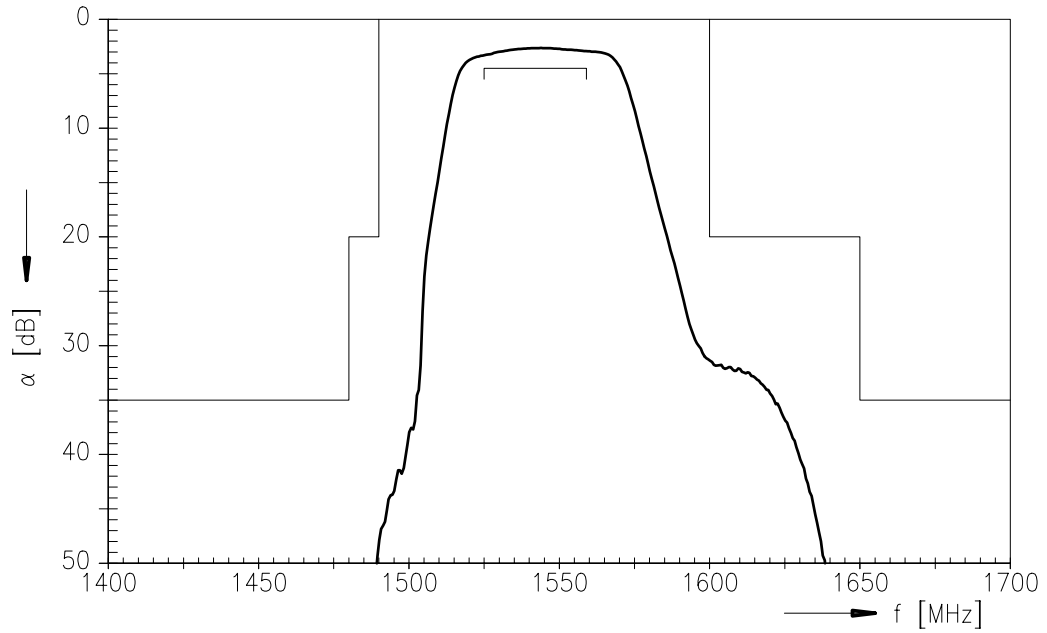
**Characteristics**

Operating temperature range:  $T = -40$  to  $+85$  °C  
 Terminating source impedance:  $Z_S = 50 \Omega$   
 Terminating load impedance:  $Z_L = 50 \Omega$  (balanced)

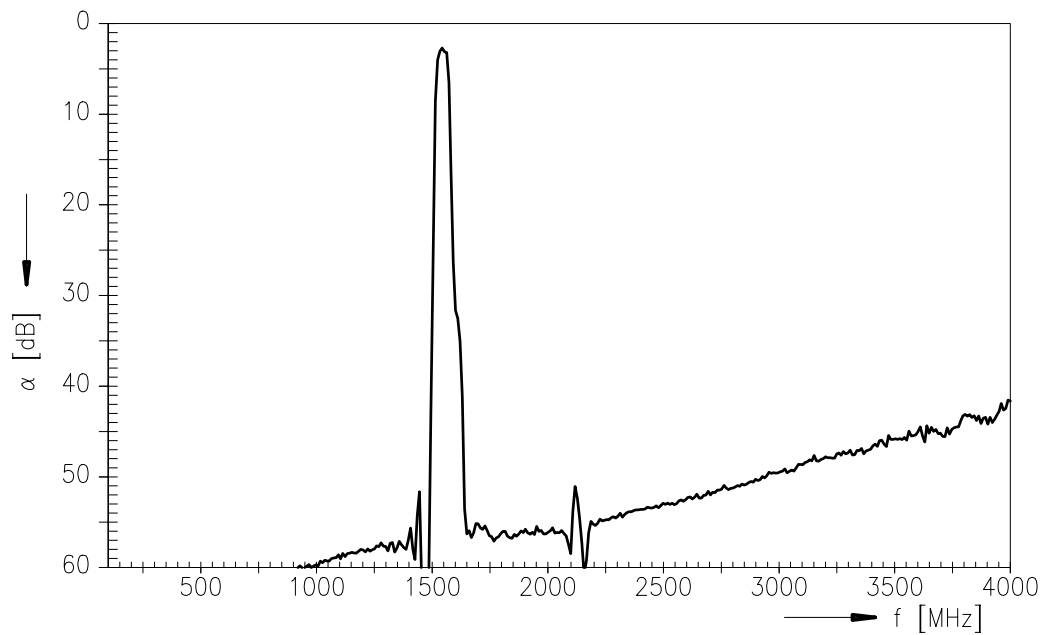
|                                      |                |                       | min. | typ.   | max. |     |
|--------------------------------------|----------------|-----------------------|------|--------|------|-----|
| <b>Center frequency</b>              | $f_c$          |                       | —    | 1542,0 | —    | MHz |
| <b>Maximum insertion attenuation</b> | $\alpha_{max}$ | 1525,0 ... 1559,0 MHz | —    | 3,3    | 4,5  | dB  |
| <b>Amplitude ripple (p-p)</b>        | $\Delta\alpha$ | 1525,0 ... 1559,0 MHz | —    | 0,7    | 1,5  | dB  |
| <b>Absolute attenuation</b>          | $\alpha_{abs}$ | 0,0 ... 1000,0 MHz    | 40,0 | 58,0   | —    | dB  |
|                                      |                | 1000,0 ... 1480,0 MHz | 35,0 | 50,0   | —    | dB  |
|                                      |                | 1480,0 ... 1490,0 MHz | 20,0 | 48,0   | —    | dB  |
|                                      |                | 1575,0 MHz            | 2,0  | 8,0    | —    | dB  |
|                                      |                | 1600,0 ... 1650,0 MHz | 20,0 | 30,0   | —    | dB  |
|                                      |                | 1650,0 ... 1785,0 MHz | 35,0 | 54,0   | —    | dB  |
|                                      |                | 1785,0 ... 2200,0 MHz | 30,0 | 50,0   | —    | dB  |
|                                      |                | 2200,0 ... 2500,0 MHz | 27,0 | 52,0   | —    | dB  |
|                                      |                | 2500,0 ... 4000,0 MHz | 18,0 | 40,0   | —    | dB  |



Transfer function



Transfer function (wide band)





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