



SAW Components

Data Sheet B3669

Data Sheet

An abstract, grayscale graphic featuring a stylized, three-dimensional representation of the EPCOS logo. The logo is rendered in a glowing, metallic style, with the word "EPCOS" in large, bold, sans-serif letters. The background is dark and textured, with a faint, circular pattern that suggests a globe or a sphere. The overall effect is a sense of depth and modernity.



SAW Components

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Low-Loss Filter

2140 MHz

Data Sheet

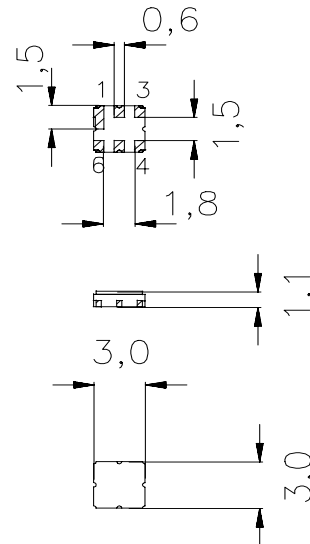
Features

- Low-loss RF filter for UMTS system
- Usable passband 60 MHz
- No matching network required for operation at 50 Ω
- Ceramic Package for Surface Mounted Technology (SMT)
- RoHS Compliant

Terminals

- Ni, gold-plated

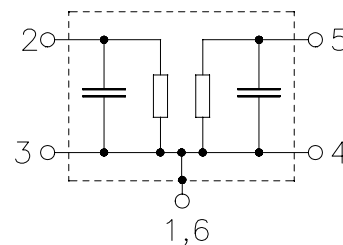
SMD ceramic package DCC6C



Dimensions in mm, approx. weight 0,037 g

Pin configuration

- | | |
|------|---------------|
| 2 | Input |
| 1, 3 | Input ground |
| 5 | Output |
| 4, 6 | Output ground |



| Type | Ordering code | Marking and Package according to | Packing according to |
|-------|-------------------|----------------------------------|----------------------|
| B3669 | B39212-B3669-U410 | C61157-A7-A67 | F61074-V8168-Z000 |

Electrostatic Sensitive Device (ESD)

Maximum ratings

| | | | | |
|----------------------------|------------------|-----------|--------------------|--|
| Operable temperature range | T | - 40/+ 85 | $^{\circ}\text{C}$ | Machine Model, 10 pulses ¹⁾ |
| Storage temperature range | T_{stg} | - 40/+ 85 | $^{\circ}\text{C}$ | |
| DC voltage | V_{DC} | 0 | V | |
| ESD voltage | V_{ESD} | 50 | V | |
| Source power | P_{s} | 10 | dBm | |

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



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Characteristics

Operating temperature range: $T_A = -30 \dots +85 \text{ }^\circ\text{C}$
Terminating source impedance: $Z_S = 50 \text{ } \Omega$
Terminating load impedance: $Z_L = 50 \text{ } \Omega$

| | | min. | typ. | max. | |
|---|-----------------|------|--------|------|-------|
| Nominal frequency | f_N | — | 2140,0 | — | MHz |
| Maximum insertion attenuation | α_{\max} | | | | |
| 2110,0 ... 2170,0 MHz | | — | 3,0 | 3,5 | dB |
| Amplitude ripple (p-p) | $\Delta\alpha$ | | | | |
| 2110,0 ... 2170,0 MHz | | — | 1,0 | 1,5 | dB |
| Return loss | | | | | |
| 2110,0 ... 2170,0 MHz | | 9,0 | 11,0 | — | dB |
| Attenuation | α | | | | |
| 50,0 ... 1400,0 MHz | | 22,0 | 27,0 | — | dB |
| 1400,0 ... 1910,0 MHz | | 25,0 | 28,0 | — | dB |
| 1910,0 ... 1980,0 MHz | | 30,0 | 38,0 | — | dB |
| 2300,0 ... 3700,0 MHz | | 25,0 | 30,0 | — | dB |
| 3700,0 ... 5300,0 MHz | | 20,0 | 25,0 | — | dB |
| 5300,0 ... 5700,0 MHz | | 15,0 | 18,0 | — | dB |
| Temperature coefficient of frequency | TC_f | — | -35 | — | ppm/K |



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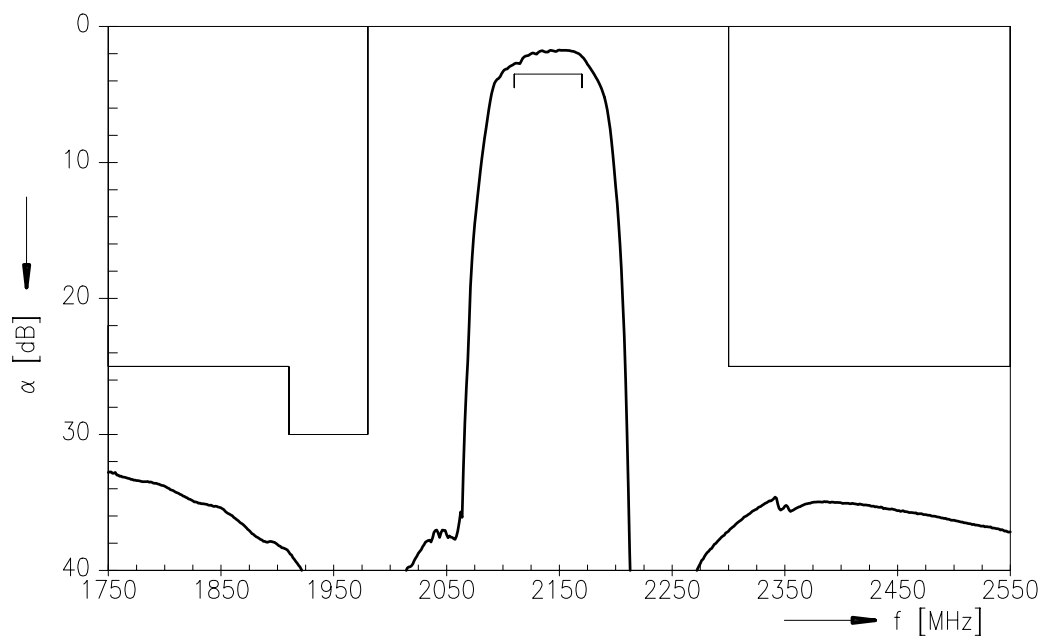
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Low-Loss Filter

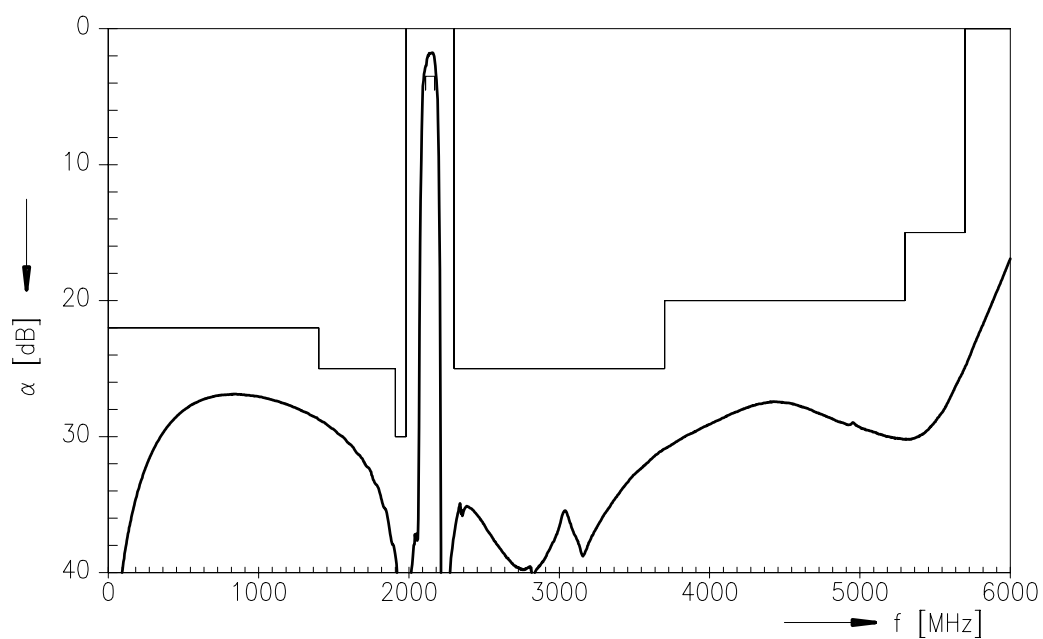
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Transfer function (narrow band)



Transfer function (wide band)





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