



Siemens Matsushita Components

SAW Components

Low Loss Filter for Mobile Communication

B4038
465,14 MHz

Data Sheet

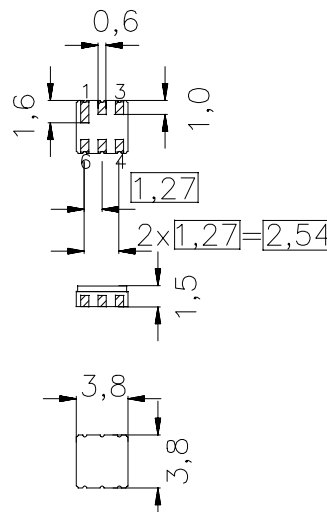
Features

- Low loss RF filter for US family radio system
- Low amplitude ripple
- High image frequency suppression
- Package for **Surface Mounted Technology (SMT)**
- No matching network required for operation at 50 Ω

Terminals

- Ni, gold-plated

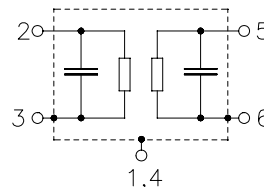
Ceramic package DCC6



Dimensions in mm, approx. weight 0,13 g

Pin configuration

| | |
|------------|----------------|
| 2 | Input |
| 5 | Output |
| 1, 3, 4, 6 | To be grounded |



| Type | Ordering code | Marking and Package according to | Packing according to |
|-------|-------------------|----------------------------------|----------------------|
| B4038 | B39471-B4038-Z610 | C61157-A7-A41 | F61074-V8030-Z000 |

Electrostatic Sensitive Device (ESD)

Maximum ratings

| | | | |
|----------------------------|------------------|-----------|--------------------|
| Operable temperature range | T | -20 / +60 | $^{\circ}\text{C}$ |
| Storage temperature range | T_{stg} | -40 / +85 | $^{\circ}\text{C}$ |
| DC voltage | V_{DC} | 0 | V |
| Source power | P_s | 10 | dBm |



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Characteristics

Operating temperature range: $T = -20$ to $+60$ °C
Terminating source impedance: $Z_S = 50 \Omega$
Terminating load impedance: $Z_L = 50 \Omega$

| | | min. | typ. | max. | |
|--|-----------------|------|--|------|--|
| Center frequency | f_c | — | 465,14 | — | MHz |
| Maximum insertion attenuation 462,5625 ... 467,7125 MHz | α_{\max} | — | 2,2 | 2,8 | dB |
| Amplitude ripple (p-p) 462,5625 ... 467,7125 MHz | $\Delta\alpha$ | — | 0,3 | 1,0 | dB |
| Attenuation 365,00 ... 419,16 MHz | α_{\min} | 50,0 | 60,0 | — | dB |
| 419,16 ... 424,31 MHz | | 55,0 | 62,0 | — | dB |
| 424,31 ... 455,70 MHz | | 8,0 | 12,0 | — | dB |
| 455,70 ... 456,86 MHz | | 4,0 | 8,0 | — | dB |
| 530,00 ... 565,00 MHz | | 50,0 | 60,0 | — | dB |
| Impedance at 465,14 MHz Input: $Z_{IN} = R_{IN} \parallel C_{IN}$ Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$ | | — | 50 \parallel 0,5 50 \parallel 0,5 | — | $\Omega \parallel \text{pF}$ $\Omega \parallel \text{pF}$ |
| Temperature coefficient of frequency | TC_f | — | -70 | — | ppm/K |



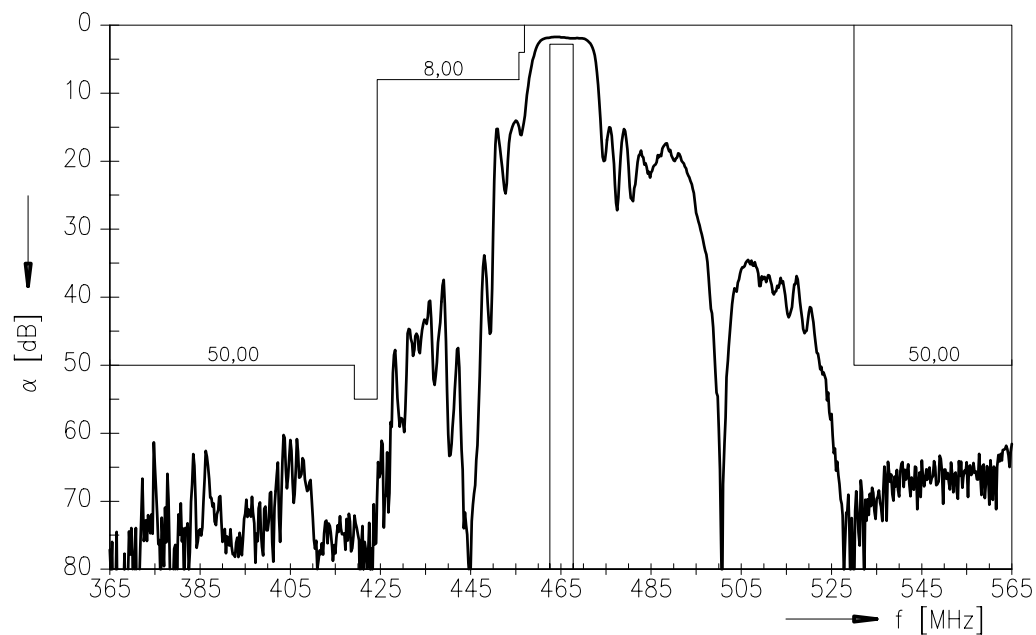
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Transfer function



Transfer function (wideband)

