



SAW Components

Data Sheet B3625





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B3625

Low-Loss Filter

71,00 MHz

Data Sheet

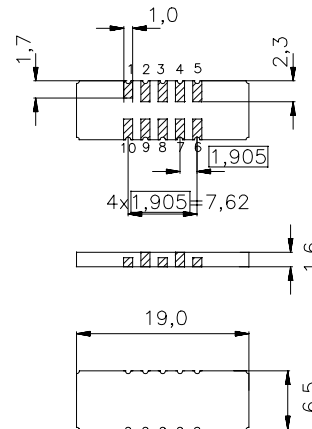
Ceramic package **DCC18**

Features

- Low-loss IF filter for basestation
- Channel selection in GSM systems
- Hermetically sealed ceramic SMD package

Terminals

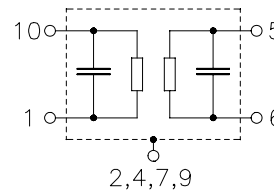
- Gold plated



Dim. in mm, aprox. weight 0,8 g

Pin configuration

- 10,1 Input
- 5,6 Output
- 3,8 Ground
- 2,4,7,9 Case – ground



| Type | Ordering code | Marking and Package according to | Packing according to |
|-------|-------------------|----------------------------------|----------------------|
| B3625 | B39710-B3625-U210 | C61157-A7-A54 | F61074-V8069-Z000 |

Electrostatic Sensitive Device (ESD)

Maximum ratings

| | | | | |
|----------------------------|-----------|-----------|-----|--|
| Operable temperature range | T | - 30/+ 85 | °C | |
| Storage temperature range | T_{stg} | - 30/+ 85 | °C | |
| DC voltage | V_{DC} | 0 | V | |
| Source power | P_s | 10 | dBm | |


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Characteristics

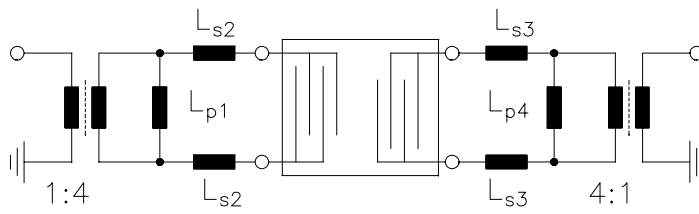
Operating temperature: $T = 0 - 70\text{ }^{\circ}\text{C}$
 Terminating source impedance: $Z_S = 200\ \Omega$ unbalanced and matching network
 Terminating load impedance: $Z_L = 200\ \Omega$ unbalanced and matching network

| | | min. | typ. | max. | |
|----------------------------------------------------------------------|-----------------------|------|-----------|-----------|--------------------|
| Nominal frequency | f_N | — | 71,0 | — | MHz |
| Minimum insertion attenuation (including matching network) | α_N | — | 7,0 | 8,0 | dB |
| Passband width $\alpha_{\text{rel}} \leq 1\text{ dB}$ | $B_{1,0\text{dB}}$ | — | 0,21 | — | MHz |
| Amplitude ripple in passband 70,92 ... 71,08 MHz | $\Delta\alpha$ | — | $\pm 0,6$ | $\pm 1,0$ | dB |
| Absolute group delay | τ | 2,35 | 2,50 | 2,65 | μs |
| Group delay ripple (p-p) 70,92 ... 71,08 MHz | $\Delta\tau$ | — | 0,45 | 1,5 | μs |
| Relative attenuation (relative to α_N) | α_{rel} | | | | |
| $f_N \pm 200\text{ kHz} \dots f_N \pm 300\text{ kHz}$ | | 3 | — | — | dB |
| $f_N \pm 300\text{ kHz} \dots f_N \pm 400\text{ kHz}$ | | 13 | — | — | dB |
| $f_N \pm 400\text{ kHz} \dots f_N \pm 700\text{ kHz}$ | | 23 | — | — | dB |
| $f_N \pm 700\text{ kHz} \dots f_N \pm 1600\text{ kHz}$ | | 31 | — | — | dB |
| @ $f_N \pm 800\text{ kHz}$ | | 34 | — | — | dB |
| $f_N \pm 1600\text{ kHz} \dots f_N \pm 6000\text{ kHz}$ | | 35 | — | — | dB |
| $f_N \pm 6000\text{ kHz} \dots f_N \pm 35000\text{ kHz}$ | | 40 | — | — | dB |
| IM3 level (Input level -14 dBm) | | | | | |
| $f_N \pm 800\text{ kHz}$ | | — | — | -95 | dBm |
| $f_N \pm 1600\text{ kHz}$ | | — | — | -95 | dBm |
| Temperature coefficient of frequency ¹⁾ | TC_f | — | -0,033 | — | ppm/K ² |
| Turnover temperature | T_0 | — | 10 | — | $^{\circ}\text{C}$ |

1) Temperature dependence of f_c : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$



Matching network:

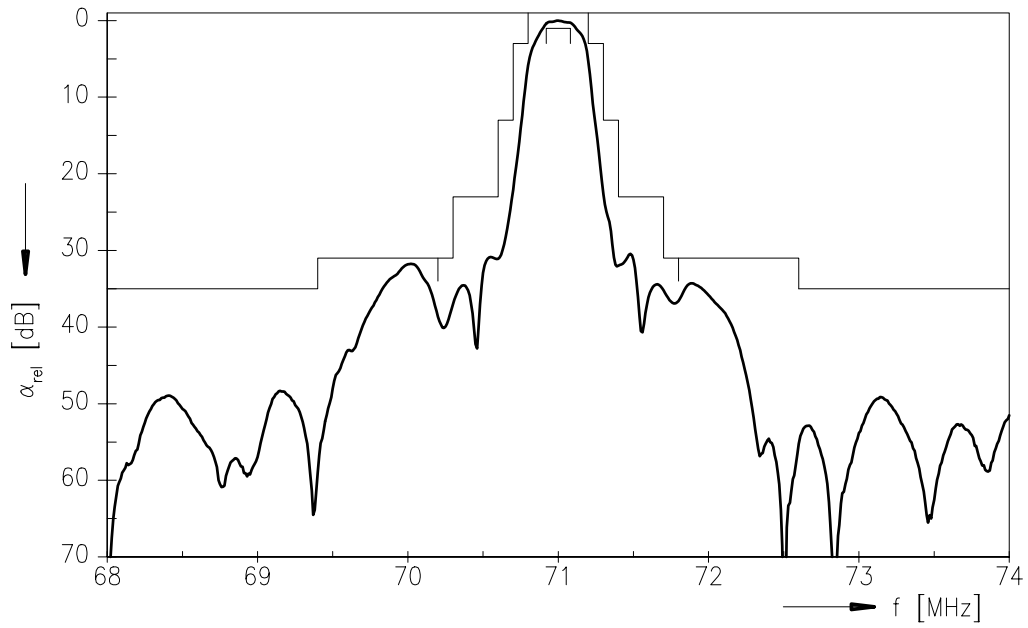


- Lp1=120 nH
- Ls2=120 nH
- Ls3=220 nH
- Lp4=180 nH

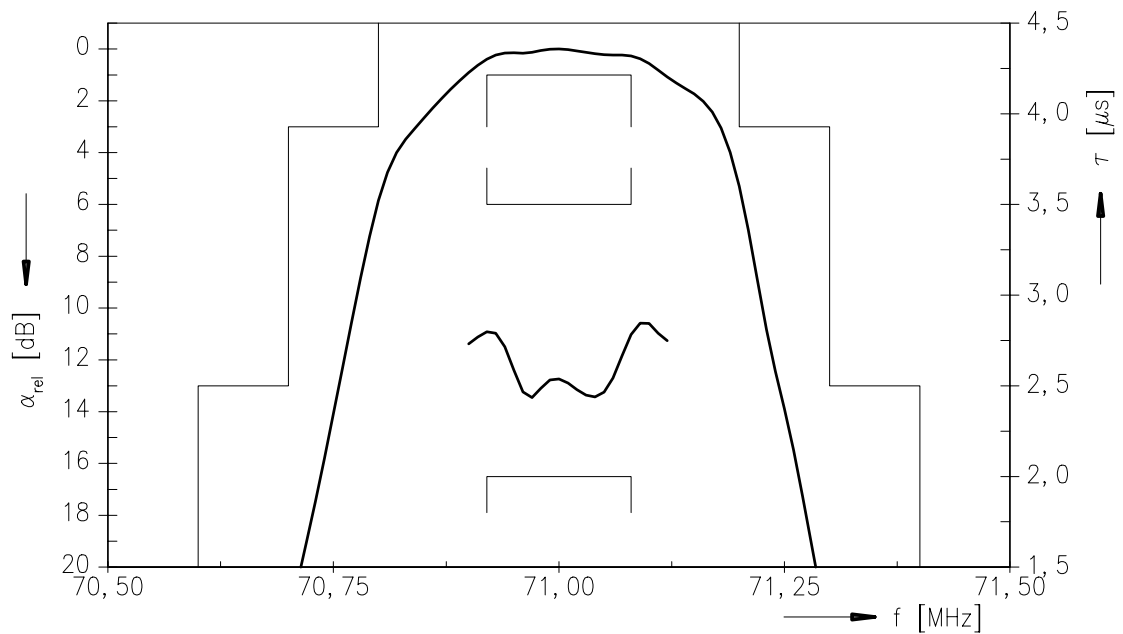


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Normalized frequency response



Normalized frequency response (pass band)





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