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SAW Components

Data Sheet B3626





SAW Components

B3626

Low-Loss Filter

190,0 MHz

Data Sheet

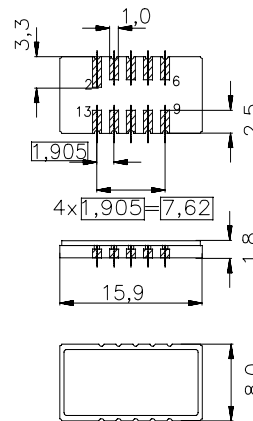
Ceramic package **DCC14B**

Features

- Low-loss IF filter for basestation
- Clean-up filter
- Hermetically sealed ceramic SMD package

Terminals

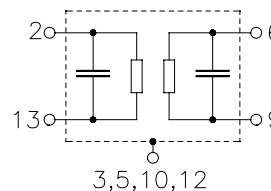
- Gold-plated



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

Pin configuration

- | | |
|-----------|---------------|
| 2 | Input |
| 9 | Output |
| 13 | Input ground |
| 6 | Output ground |
| 4,11 | Ground |
| 3,5,10,12 | Case – ground |



| Type | Ordering code | Marking and Package according to | Packing according to |
|-------|-------------------|----------------------------------|----------------------|
| B3626 | B39191-B3626-U110 | C61157-A7-A45 | F61074-V8036-Z000 |

Electrostatic Sensitive Device (ESD)

Maximum ratings

| | | | | |
|----------------------------|-----------|-----------|-----|--|
| Operable temperature range | T | - 45/+ 85 | °C | |
| Storage temperature range | T_{stg} | - 45/+ 85 | °C | |
| DC voltage | V_{DC} | 0 | V | |
| Source power | P_s | 10 | dBm | |



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Characteristics

Operating temperature: $T = -45 \dots +85 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$ unbalanced and matching network
 Terminating load impedance: $Z_L = 50 \text{ } \Omega$ unbalanced and matching network

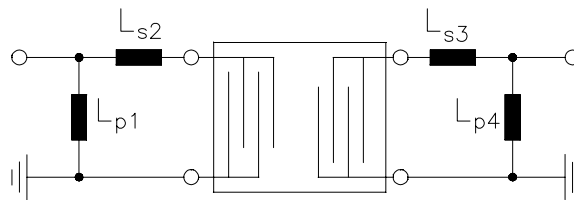
| | | min. | typ. | max. | |
|--|--------------------|-------------|-------------|-------------|--------------------|
| Nominal frequency | f_N | — | 190,00 | — | MHz |
| Insertion attenuation at f_N reference level for the following data | α_N | — | 6,2 | 8,0 | dB |
| Passband width $\alpha_{\text{rel}} \leq 1 \text{ dB}$ | $B_{1,0\text{dB}}$ | 0,2 | 0,5 | | MHz |
| Amplitude ripple (p-p) 189,9 ... 190,1 MHz | $\Delta\alpha$ | — | 0,3 | 1,0 | dB |
| Group delay ripple (p-p) 189,9 ... 190,1 MHz | $\Delta\tau$ | — | 0,12 | 0,3 | μs |
| Relative attenuation (relative to α_N) | α_N | | | | |
| 180,0 ... 184,0 MHz | | 35 | 45 | — | dB |
| 184,0 ... 188,8 MHz | | 20 | 40 | — | dB |
| 188,8 ... 189,4 MHz | | 3 | 7 | — | dB |
| 190,6 ... 191,2 MHz | | 3 | 7 | — | dB |
| 191,2 ... 196,0 MHz | | 20 | 32 | — | dB |
| 196,0 ... 200,0 MHz | | 35 | 44 | — | dB |
| Temperature coefficient of frequency ¹⁾ | TC_f | — | -0,036 | — | ppm/K ² |
| Turnover temperature | T_0 | — | 30 | — | $^\circ\text{C}$ |

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



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Matching network (element values depend on pcb layout)



- $L_{p1} = 18 \text{ nH}$
- $L_{s2} = 56 \text{ nH}$
- $L_{s3} = 39 \text{ nH}$
- $L_{p4} = 22 \text{ nH}$



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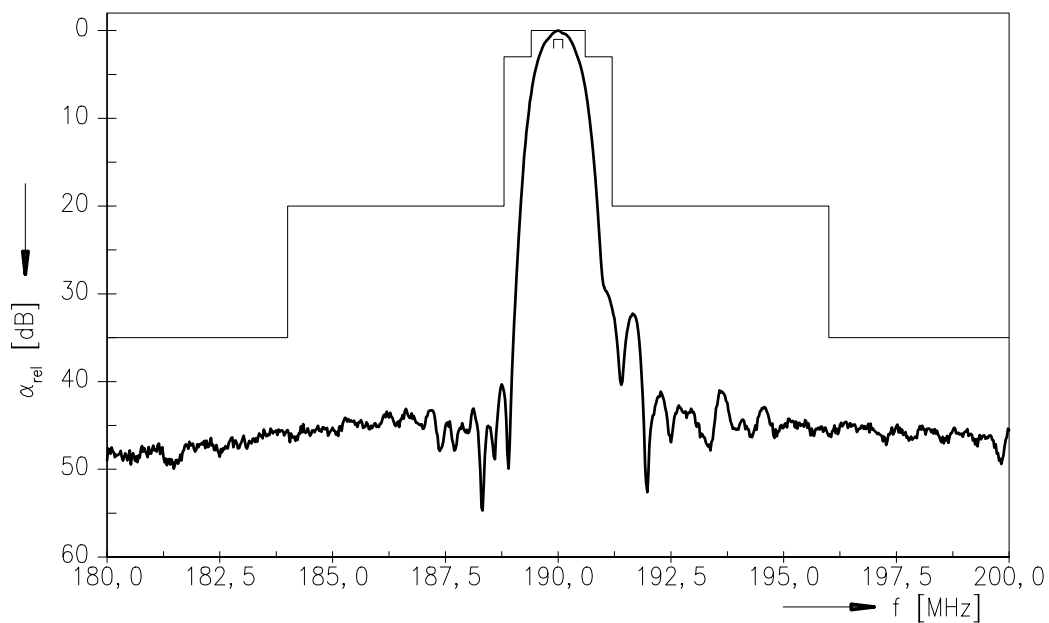
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Low-Loss Filter

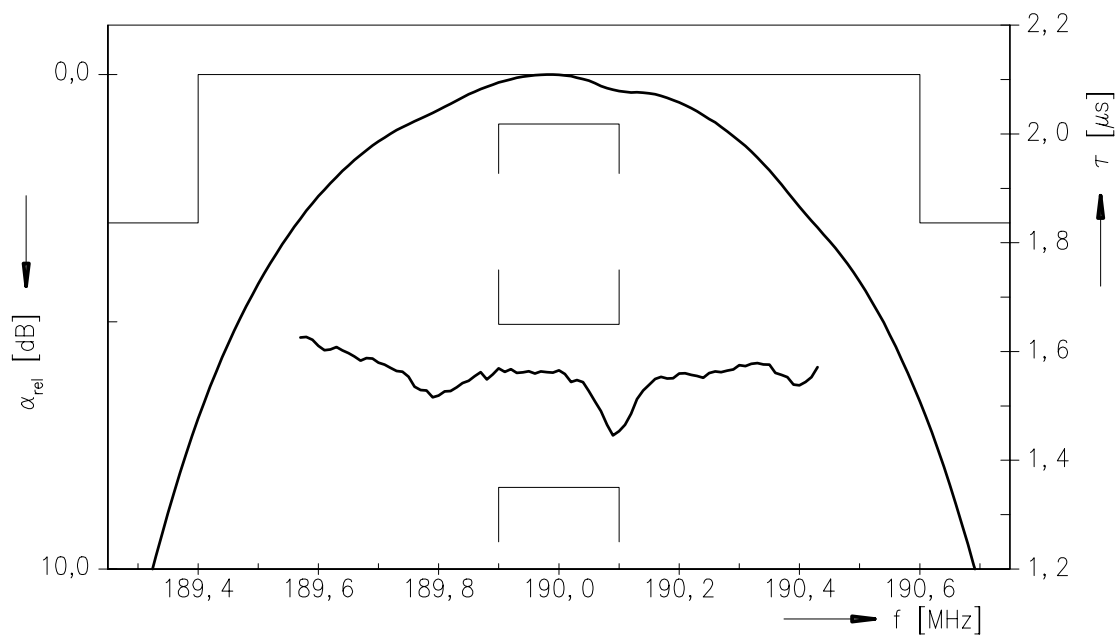
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Normalized frequency response



Normalized frequency response (pass band)





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