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SAW Components

Data Sheet B3831

Data Sheet

EP



SAW Components

B3831

Low-Loss Filter

150,0 MHz

Data Sheet

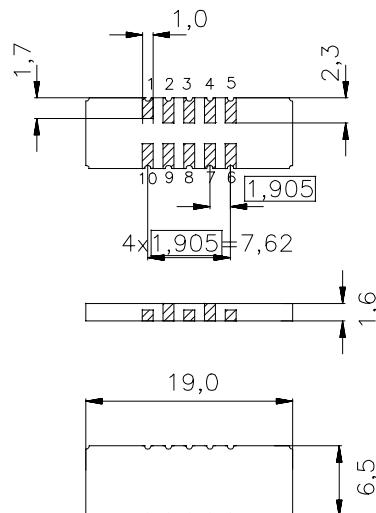
Features

- Low-loss IF filter for CDMA base station
- Temperature stable
- Ceramic SMD package
- Unbalanced or balanced operation

Terminals

- Gold plated

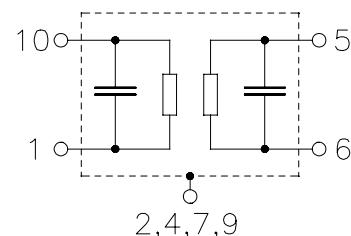
Ceramic package DCC18



Dimensions in mm, approx. weight 0,8 g

Pin configuration

10	Input or balanced input
1	Input ground or balanced input
5	Output or balanced output
6	Output ground or balanced output
3, 8	Ground
2, 4, 7, 9	Case ground



Type	Ordering code	Marking and Package according to	Packing according to
B3831	B39151-B3831-U210	C61157-A7-A54	F61074-V8081-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	-40 / +85	°C	
Storage temperature range	T_{stg}	-40 / +85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_s	0	dBm	

**SAW Components****B3831****Low-Loss Filter****150,0 MHz****Data Sheet****Characteristics**

Operating temperature range: $T = -40$ to $+85$ °C
Terminating source impedance: $Z_S = 1000 \Omega \parallel 87\text{nH}$
Terminating load impedance: $Z_L = 1000 \Omega \parallel 73\text{nH}$

			min.	typ.	max.	
Nominal frequency	f_N	—	150	—	—	MHz
Minimum insertion attenuation	α_{\min}	—	16,5	18	—	dB
1dB bandwidth	$\alpha_{\text{rel}} \leq 1,0$ dB	$B_{1,0\text{dB}}$	1,29	1,45	—	MHz
Amplitude ripple (p-p)	$f_N \pm 615$ kHz	$\Delta\alpha$	—	0,5	1,0	dB
Phase linearity (p-p)	$f_N \pm 615$ kHz	$\Delta\phi$	—	3,7	5,0	deg
Relative attenuation (relative to α_{\min})	$f_N \pm 2,25$ MHz ... $f_N \pm 40,0$ MHz	α_{rel}	30	42	—	dB
VSWR	$f_N \pm 615$ kHz	—	—	1,4:1	1,6:1	—
Temperature coefficient of frequency ¹⁾	TC_f	—	—	—0,036	—	ppm/K ²
Turnover temperature	T_0	—	—	35	—	°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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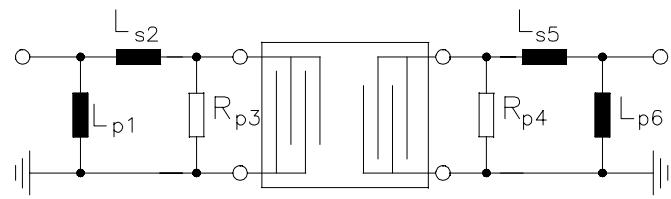
Low-Loss Filter

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Matching network to 50 Ω

(Element values depend on PCB layout)



$L_{p1} = 27\text{nH}$

$R_{p4} = 820\Omega$

$L_{s2} = 56\text{nH}$

$L_{s5} = 56\text{nH}$

$R_{p3} = 1000\Omega$

$L_{p6} = 33\text{nH}$



SAW Components

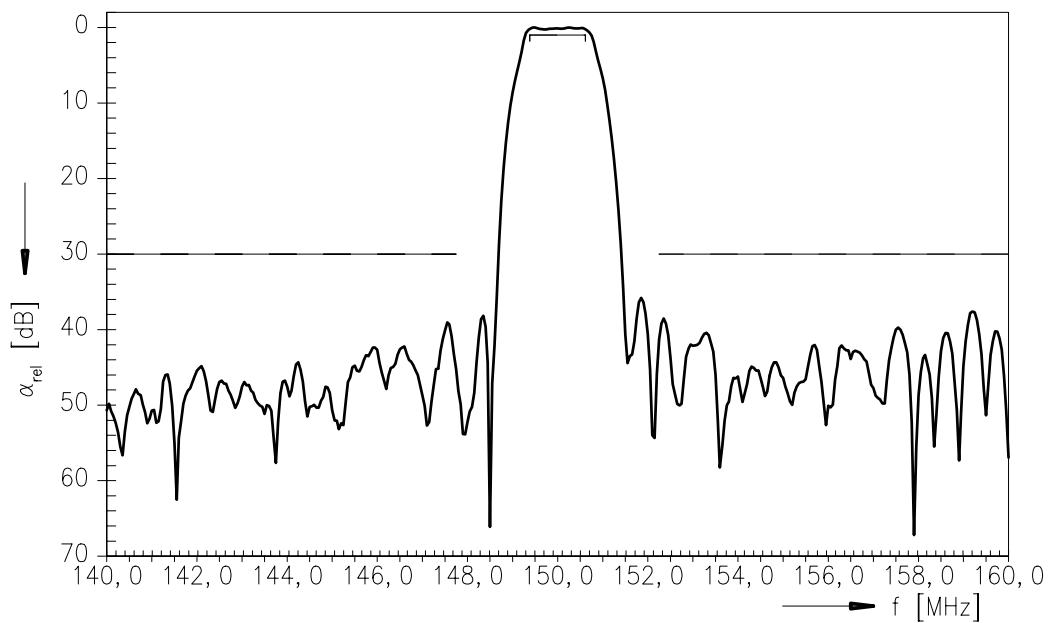
B3831

Low-Loss Filter

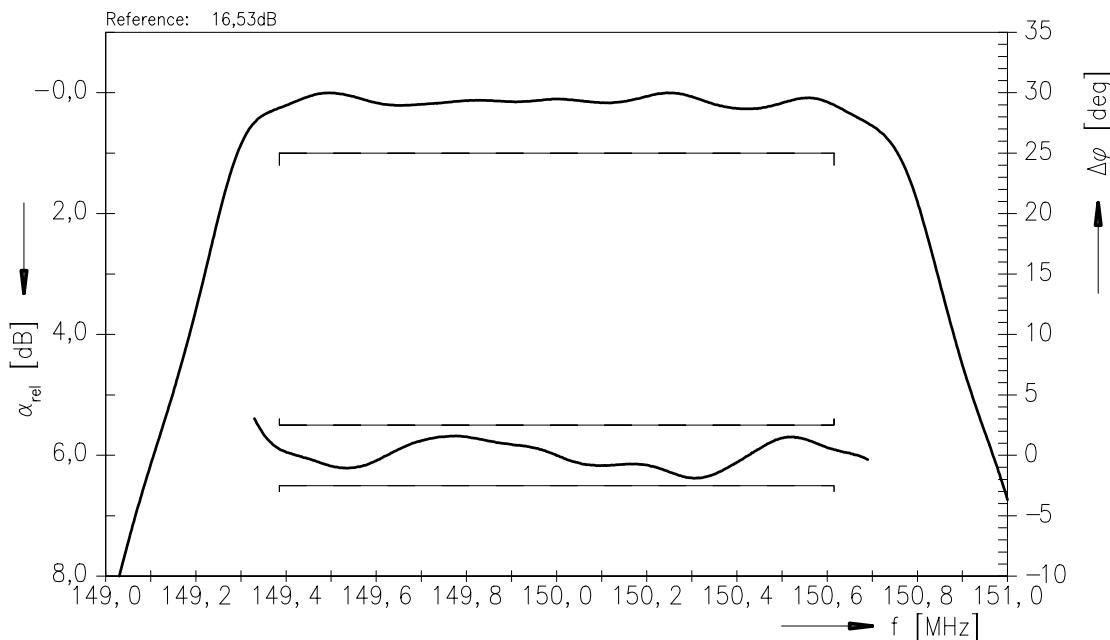
150,0 MHz

Data Sheet

Normalized frequency response



Normalized frequency response (pass band)





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Low-Loss Filter

150,0 MHz

Data Sheet

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