

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SAW Components

Data Sheet B3831





Data Sheet

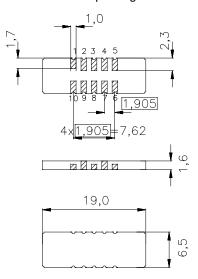
Features

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

Terminals

■ Gold plated

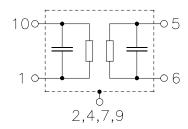
Ceramic package DCC18



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



Туре	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	Τ	-40 / +85	°C
_ ' ' '	·		
Storage temperature range	$T_{\sf sta}$	-40 / +85	l °C
DC voltage	$V_{\rm DC}$	0	V
Source power	$P_{\rm s}$	0	dBm



Data Sheet

Characteristics

Operating temperature range: T = -40 to +85 °CTerminating 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		_	16,5	18	dB
1dB bandwidth $\alpha_{rel} \leq 1,0 \ dB$	B _{1,0dB}	1,29	1,45	_	MHz
Amplitude ripple (p-p) $f_{\rm N} \pm 6$	15 kHz Δα	_	0,5	1,0	dB
Phase linearity (p-p) $f_{\rm N} \pm 61$	5 kHz Δφ	_	3,7	5,0	deg
Relative attenuation (relative to α_{min}) $f_{N} \pm 2,25 \text{ MHz} \dots f_{N} \pm 40$,0 MHz	30	42	_	dB
VSWR $f_{\rm N} \pm 6$	15 kHz	_	1,4:1	1,6:1	
Temperature coefficient of frequency 1)		_	-0,036	_	ppm/K ²
Turnover temperature	T_0		35	_	°C

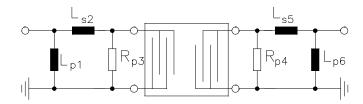
 $^{^{1)}}$ Temperature dependance of $f_{\rm c}$: $f_{\rm c}(T_{\rm A}) = f_{\rm c}(T_0)(1 + TC_{\rm f}(T_{\rm A} - T_0)^2)$



Data Sheet

Matching network to 50 $\boldsymbol{\Omega}$

(Element values depend on PCB layout)



 $Lp1 = 27nH Rp4 = 820\Omega$

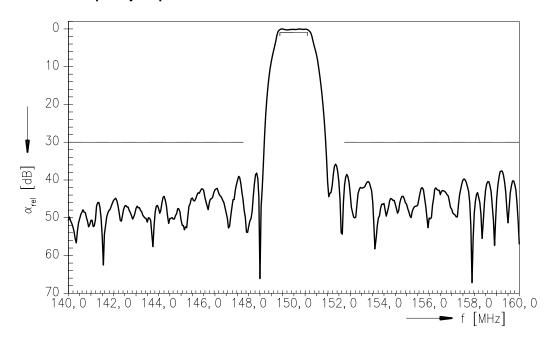
Ls2 = 56nH Ls5 = 56nH

 $Rp3 = 1000\Omega$ Lp6 = 33nH

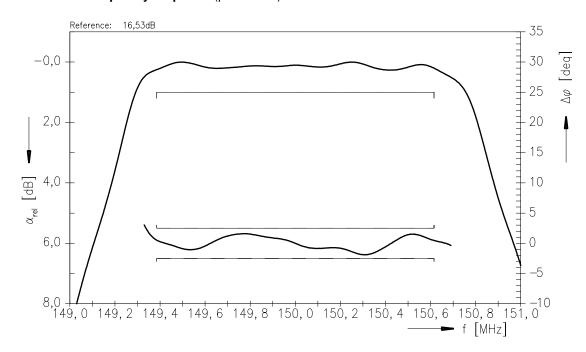


Data Sheet

Normalized frequency response



Normalized frequency response (pass band)





Data Sheet

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