

SAW Components

Data Sheet B3895





SAW ComponentsB3895Low-Loss Filter204,0 MHz

Data Sheet

Low-loss IF filter for S-CDMA applications

■ 500 kHz usable bandwidth

Temperature stable

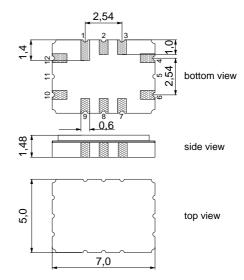
Ceramic SMD package

Features

Terminals

Gold plated

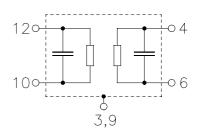
Ceramic package QCC12C



Dimensions in mm, approx. weight 0,2 g

Pin configuration

12	Input
10	Input ground
6	Output
4	Output ground
1, 2, 7, 8	Ground
3, 9	Case ground



Туре	Ordering code	Marking and Package according to	Packing according to
B3895	B39201-B3895-H310	C61157-A7-A95	F61074-V8170-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	-40 / +80	°C
Storage temperature range	T _{stg}	-40 / +85	°C
DC voltage	V _{DC}	0	V
Source power	Ps	0	dBm

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Characteristics						
Operating temperature range: Terminating source impedance Terminating load impedance:	e: Z		and matchi	ng network ng network		
			min.	typ.	max.	
Nominal frequency		f _N	_	204,0	_	MHz
Minimum insertion attenuati	on	$lpha_{min}$	—	9,0	10,0	dB
Pass bandwidth		-				
$\alpha_{rel} \leq 1$,0 dB ,0 dB	B _{1dB}		700 1150	—	kHz kHz
$\alpha_{rel} \leq 3$,0 UB	B _{3dB}	_	1150	_	KI IZ
Amplitude ripple (p-p)	<i>f</i> _N ± 250 kHz	Δα	_	0,5	1,0	dB
Absolute group delay	@ f _N	τ	_	0,8	_	μs
Group delay ripple (p-p)	<i>f</i> _N ± 250 kHz	Δτ	_	30	100	ns
Relative attenuation (relative f _N – 10,0 MHz f _I		$lpha_{ m rel}$	45	48	_	dB
f _N + 2,0 MHz f _I	•		45	50	_	dB
f _N + 3,5 MHz f _I			44	46	—	dB
f _N + 4,5 MHz f _I	_N + 10,0 MHz		45	48	—	dB
Temperature coefficient of f	requency ¹⁾	TC _f	_	-0,036	_	ppm/K
Turnover temperature		T_0	_	35	_	°C

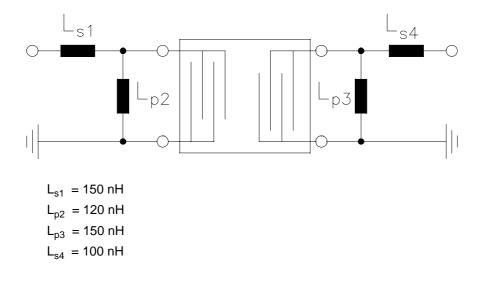
¹⁾ Temperature dependance of f_c : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$



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Matching network to 50 Ω (Element values depend on PCB layout)



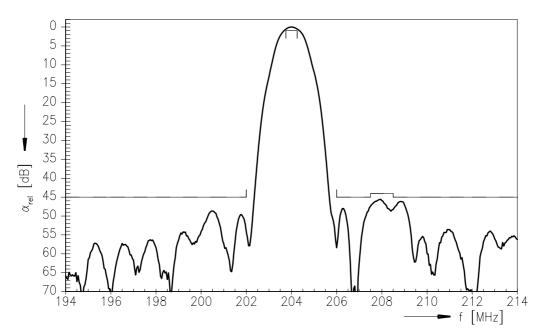
4



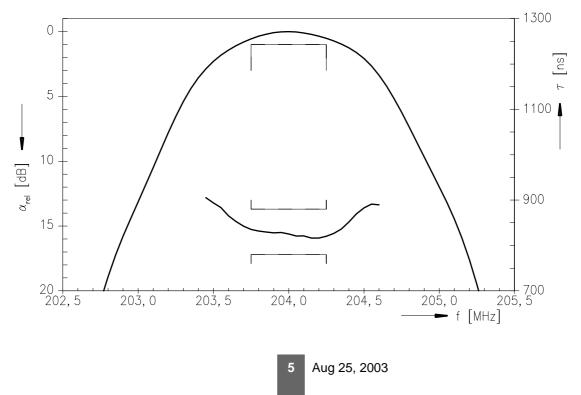
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Normalized frequency response



Normalized frequency response (pass band)





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