

SAW Components

Data Sheet B3895





SAW Components	B3895
Low-Loss Filter	204,0 MHz
Data Sheet	

Ceramic package QCC12C

2,542,54

Dimensions in mm, approx. weight 0,2 g

Pin configuration

Features

Terminals

Gold plated

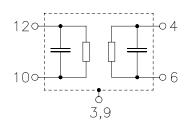
Low-loss IF filter for S-CDMA applications

■ 500 kHz usable bandwidth

Temperature stable

Ceramic SMD package

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 _{stq}	-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:		70 °C 2 and match 2 and match			
		min.	typ.	max.	
Nominal frequency	f _N	-	204,0	_	MHz
Minimum insertion attenuation	α_{min}	-	9,0	10,0	dB
Pass bandwidth	_				
$\begin{array}{ll} \alpha_{rel} & \leq 1,0 \; dB \\ \alpha_{rel} & \leq 3,0 \; dB \end{array}$	B _{1dB} B _{3dB}		700 1150	_	kHz kHz
Amplitude ripple (p-p)	Δα				
$f_{\rm N} \pm$	250 kHz	_	0,5	1,0	dB
Absolute group delay	τ				
@ f _t	N	-	0,8	—	μs
Group delay ripple (p-p)	$\Delta \tau$				
f _N ±	250 kHz	_	30	100	ns
Relative attenuation (relative to α_{m}	_{in}) α _{rel}				
$f_N - 10,0 \text{ MHz} \dots f_N - 2$		45	48	—	dB
$f_{N} + 2,0 \text{ MHz} \dots f_{N} + 3$		45	50	—	dB
$f_N + 3,5 \text{ MHz} \dots f_N + 4$		44	46	—	dB
f _N + 4,5 MHz f _N + 10	,0 MHz	45	48	—	dB
Temperature coefficient of freque	ncy ¹⁾ TC _f		-0,036		ppm/K ²
Turnover temperature	T ₀	-	35	—	°C

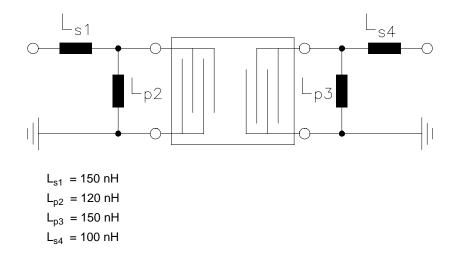
Temperature coefficient of frequency 1) TC_f --0,036-ppm/K²Turnover temperature T_0 -35-°C1) Temperature dependance of f_c : $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$



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



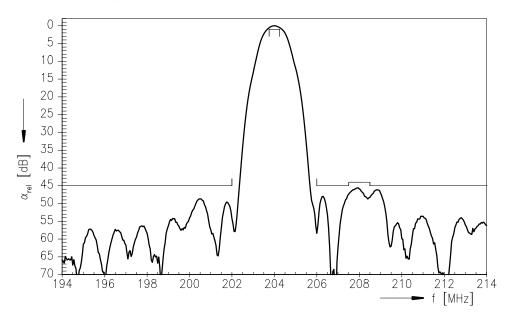
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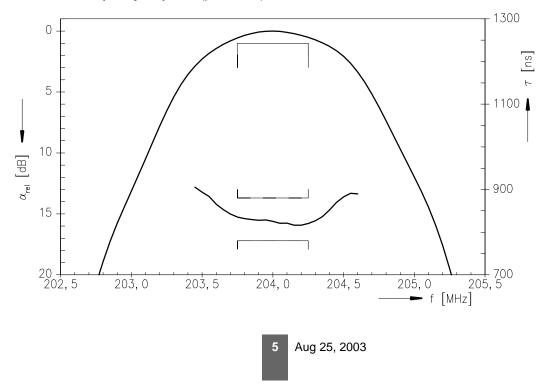
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Normalized frequency response



Normalized frequency response (pass band)





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This brochure replaces the previous edition.

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