

# SAW Components

Preliminary Data LN07A





SAW Components LN07A
Low-Loss Filter 70,0 MHz

#### **Preliminary Data**

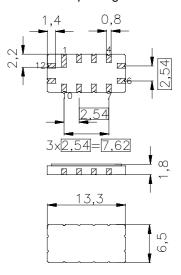
#### **Features**

- IF low-loss filter for CDMA base station
- Usable bandwidth 5 MHz
- Balanced or unbalanced operation possible
- Ceramic SMD package

#### **Terminals**

Gold plated

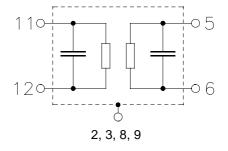
### Ceramic package QCC12



Dimensions in mm, appr. weight 0,44 g

#### Pin configuration

11	Input
12	Input ground
5	Output
6	Output ground
2, 3, 8, 9	Case ground
1, 4, 7, 10	To be grounded



Туре	Ordering code	Marking and Package according to	Packing according to	

Electrostatic Sensitive Device (ESD)

#### **Maximum ratings**

Operable temperature range	Τ	-40 / +85	°C
Storage temperature range	$T_{stg}$	-40 / +85	°C
DC voltage	$V_{\rm DC}$	0	V
Source power	$P_{\rm s}$	0	dBm



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**Characteristics** 

Operating temperature range:  $T = -10 ... 75 \,^{\circ}\text{C}$ 

Terminating source impedance:  $Z_{\rm S}=50~\Omega$  and matching network Terminating load impedance:  $Z_{\rm L}=50~\Omega$  and matching network

			min.	typ.	max.	
Nominal frequency		f <sub>N</sub>	_	70,0	_	MHz
Minimum insertion attenuation		$\alpha_{\text{min}}$	_	9,0	9,5	dB
Passband width Passband width Bandwidth	$\begin{aligned} &\alpha_{rel} \leq 1 \text{ dB} \\ &\alpha_{rel} \leq 3 \text{ dB} \\ &\alpha_{rel} \leq 40 \text{ dB} \end{aligned}$	$B_{\rm 1dB}$ $B_{\rm 3dB}$ $B_{\rm 40dB}$	6,2 7,0 —	6,3 7,4 11,5	— — 11,95	MHz MHz MHz
Amplitude ripple (p-p)	$f_{\rm N}\pm 2,5~{ m MHz}$	Δα	_	0,6	1,0	dB
Absolute group delay (at $f_N$	)	τ	_	1,08	_	μs
Group delay ripple)	$f_{\rm N} \pm 2,5~{\rm MHz}$	Δτ	_	90	125	ns
Phase ripple (p-p)	$f_{\rm N}$ ± 2,5 MHz	Δφ	_	5	8	۰
Phase ripple (rms)	$f_{\rm N}\pm 2,5~{ m MHz}$	Δφ	_	0,5	_	° rms
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		$lpha_{rel}$	40 40	43 46	_ _	dB dB
Temperature coefficient of	frequency	$TC_{f}$	_	- 87	_	ppm/K



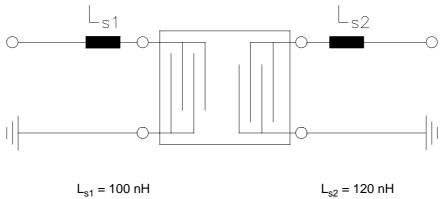
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# Matching network to $\textbf{50}\Omega$

(Element values depend upon PCB layout)

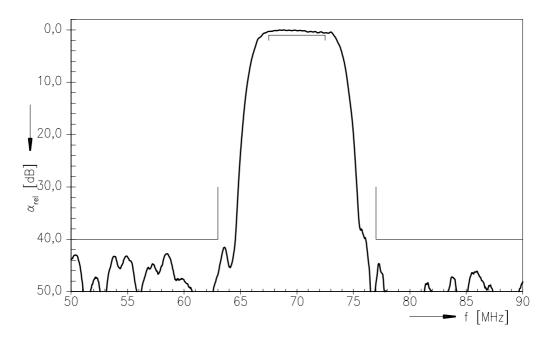




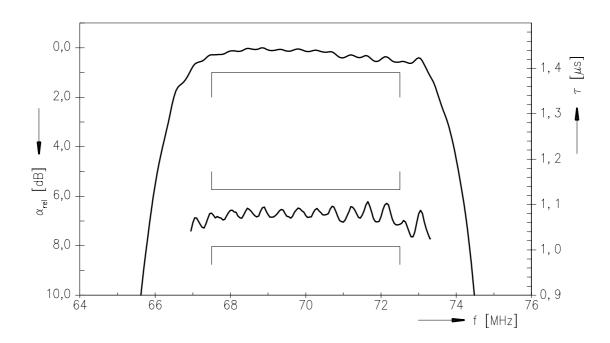
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## **Transfer function**



## Transfer function (pass band)





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