

SAW Components

Data Sheet B5018





SAW Components B5018
Low-Loss Filter 70,0 MHz

Data Sheet

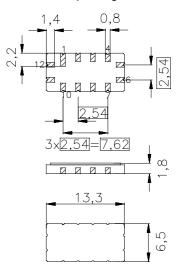
Features

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

Terminals

Gold plated

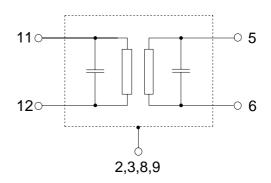
Ceramic package QCC12



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		
B5018	B39700-B5018-Z510	C61157-A7-A55	F61074-V8163-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	-40 / +85	°C
Storage temperature range	$T_{ m stg}$	-40 / +85	°C
DC voltage	$V_{\rm DC}$	0	V
Source power	P_{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 _N	_	70,0	_	MHz
Minimum insertion attenuation		α_{min}	_	8,9	9,5	dB
Passband width Passband width Bandwidth	$\begin{split} &\alpha_{rel} \leq 1 \text{ dB} \\ &\alpha_{rel} \leq 3 \text{ dB} \\ &\alpha_{rel} \leq 40 \text{ dB} \end{split}$	$B_{ m 1dB}$ $B_{ m 3dB}$ $B_{ m 40dB}$	6,2 7,0 —	6,3 7,4 11,3	— — 11,95	MHz MHz MHz
Amplitude ripple (p-p)	$f_{\rm N}$ \pm 2,5 MHz	Δα	_	0,5	1,0	dB
Absolute group delay (at f _N)		τ	_	1,08	_	μs
Group delay ripple (p-p)	$f_{\rm N}$ \pm 2,5 MHz	Δτ	_	70	125	ns
Phase ripple (p-p)	$f_{\rm N} \pm 2,5~{ m MHz}$	Δφ	_	5	8	•
Phase ripple (rms)	$f_{\rm N} \pm 2.5~{ m MHz}$	Δφ	_	0,5	_	° rms
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		α_{rel}	40 40	43 46	_ _	dB dB
Temperature coefficient of frequency		TC_{f}	_	- 87	_	ppm/K



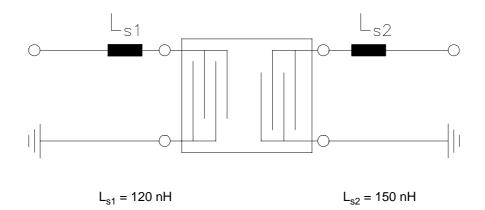
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Matching network to $\textbf{50}\Omega$

(Element values depend upon PCB layout)

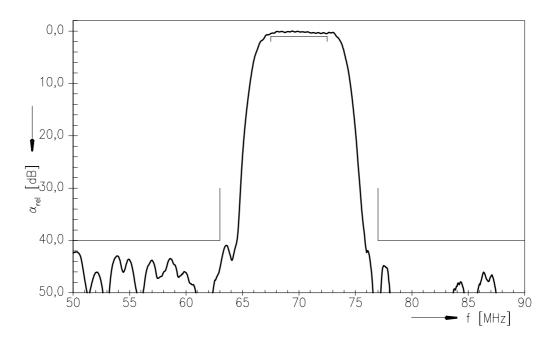




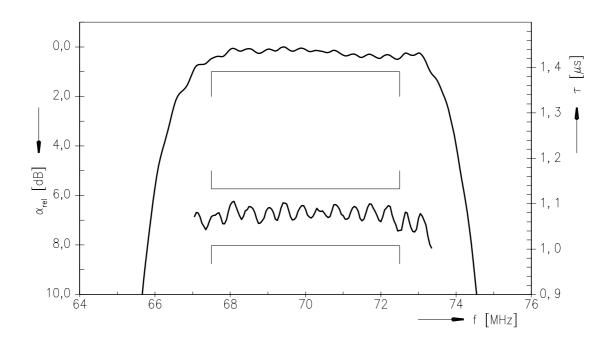
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Transfer function



Transfer function (pass band)





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