Data Sheet B5034







SAW Components B5034

Low-Loss Filter 456,00 MHz

Data Sheet

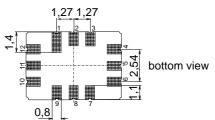
Features

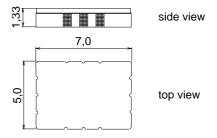
- Low-loss filter for WiMAX
- Usable bandwidth 4,2 MHz
- Low insertion attenuation
- Package for Surface Mounted Technology (SMT)

Terminals

Gold plated

Ceramic SMD package QCC12E

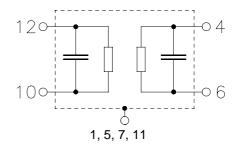




Dimensions in mm, approx. weight 0,2 g

Pin configuration

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



Туре	Ordering code	Marking and Package	Packing	
		according to	according to	
B5034	B39461-B5034-H810	C61157-A7-A103	F61074-V8170-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	$V_{\rm DC}$	3	V	between input, output and ground
DC voltage	$V_{\rm DC}$	0	V	between 10, 12 and between 4,6



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Characteristics

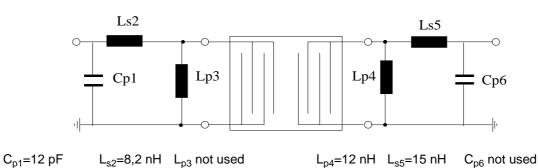
Operating temperature: $T = -30 \dots +85 \,^{\circ}\text{C}$

Terminating source impedance: 50 Ω single ended and matching network Terminating load impedance: 50 Ω single ended and matching network

		min.	typ.	max.	
Nominal frequency	f_{N}	_	456,00	_	MHz
Minimum insertion attenuation (including matching network)	$lpha_{min}$	_	6,8	9,0	dB
Amplitude ripple (p-p) $f_{\rm N} \pm i$	Δα 2,1 MHz	_	0,4	1,3	dB
Group delay ripple (p-p) $f_{N} \pm i$	Δτ 2,1 MHz	_	75	250	ns
Impulse response attenuation (Time/Height values are relative to the main time response lobe) $> 3~\mu s$		30	55	_	dB
Relative attenuation (relative to α_{min})	$lpha_{\sf rel}$				
365 MHz 371	MHz	40	48	_	dB
412	MHz	45	57	_	dB
412 MHz 450,0 MHz		40	48	_	dB
$f_{\rm N} \pm 5.3 {\rm MHz} \dots f_{\rm N} \pm 6.0 {\rm MHz}$		35	45	_	dB
462,0 MHz 600) MHz ¹⁾	40	50		dB
Temperature coefficient of frequency	<i>TC</i> _f	_	-18	_	ppm/K

¹⁾ A narrow response around 550 MHz of up to 37 dB is possible

Matching network to 50 $\Omega(Element values depend on PCB layout)$

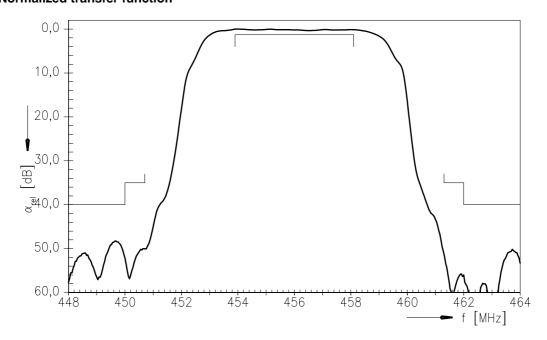




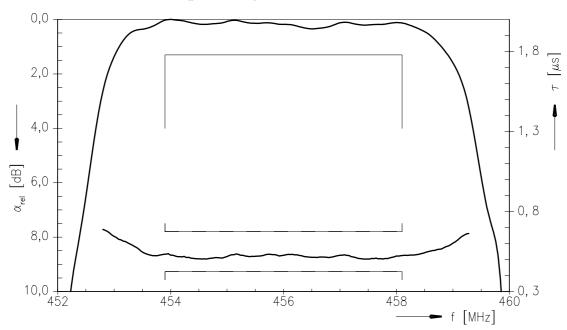
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Low-Loss Filter 456,00 MHz

Data Sheet

Normalized transfer function



Normalized transfer function (pass band)



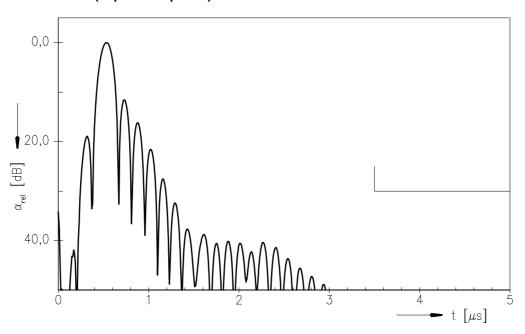


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Data Sheet

Transfer function (Impulse response)



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