



SAW Components

Data Sheet K 3562 M

Data Sheet

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SAW Components
K 3562 M
IF Filter for Quasi/Split Sound Applications
38,00 MHz
Data Sheet
Characteristics of picture channel

Reference temperature: $T_A = 25\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 2\text{ k}\Omega \parallel 3\text{ pF}$

		min.	typ.	max.	
Insertion attenuation					
	α				
Reference level for the following data	36,50 MHz	14,3	15,8	17,3	dB
Relative attenuation					
	α_{rel}				
Picture carrier	38,00 MHz	5,2	6,2	7,2	dB
Color carrier	33,57 MHz	0,3	1,3	2,3	dB
Sound carrier	31,50 MHz	30,0	39,0	—	dB
	32,50 MHz	25,0	32,0	—	dB
Adjacent picture carrier	30,00 MHz	36,0	46,0	—	dB
	31,00 MHz	30,0	44,0	—	dB
Adjacent sound carrier	39,50 MHz	35,0	42,0	—	dB
	40,00 MHz	35,0	43,0	—	dB
Lower sidelobe	25,00 ... 30,00 MHz	38,0	44,0	—	dB
Upper sidelobe	40,00 ... 45,00 MHz	37,0	43,0	—	dB
Reflected wave signal suppression					
1,2 μ s ... 6,0 μ s after main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)		42,0	50,0	—	dB
Feedthrough signal suppression					
1,2 μ s ... 1,1 μ s before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)		50,0	56,0	—	dB
Group delay predistortion					
(reference frequency 38,00 MHz)					
	$\Delta\tau$				
	35,00 MHz	—	-40	—	ns
	34,50 MHz	—	-60	—	ns
	34,00 MHz	—	-95	—	ns
	33,50 MHz	—	-130	—	ns
Impedance at 36,50 MHz					
	Input: $Z_{IN} = R_{IN} \parallel C_{IN}$	—	1,4 \parallel 20,8	—	k Ω \parallel pF
	Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$	—	2,2 \parallel 3,7	—	k Ω \parallel pF
Temperature coefficient of frequency					
	TC_f	—	-72	—	ppm/K



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 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 2\text{ k}\Omega \parallel 3\text{ pF}$

		min.	typ.	max.	
Insertion attenuation					
	α				
Reference level for the following data	31,50 MHz	12,3	13,8	15,3	dB
Relative attenuation					
	α_{rel}				
Sound carrier	32,50 MHz	0,8	1,8	2,8	dB
Picture carrier	38,00 MHz	35,0	45,0	—	dB
Color carrier	33,57 MHz	16,0	20,0	—	dB
Adjacent picture carrier	30,00 MHz	26,0	32,0	—	dB
	31,00 MHz	—	3,0	—	dB
Adjacent sound carrier	39,50 MHz	36,0	46,0	—	dB
	40,00 MHz	36,0	48,0	—	dB
Lower sidelobe	25,00 ... 30,00 MHz	26,0	32,0	—	dB
Upper sidelobe	38,00 ... 45,00 MHz	32,0	38,0	—	dB
Impedance at 31,50 MHz					
	Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$	—	3,5 \parallel 3,3	—	k Ω \parallel pF
Temperature coefficient of frequency					
	TC_f	—	-72	—	ppm/K



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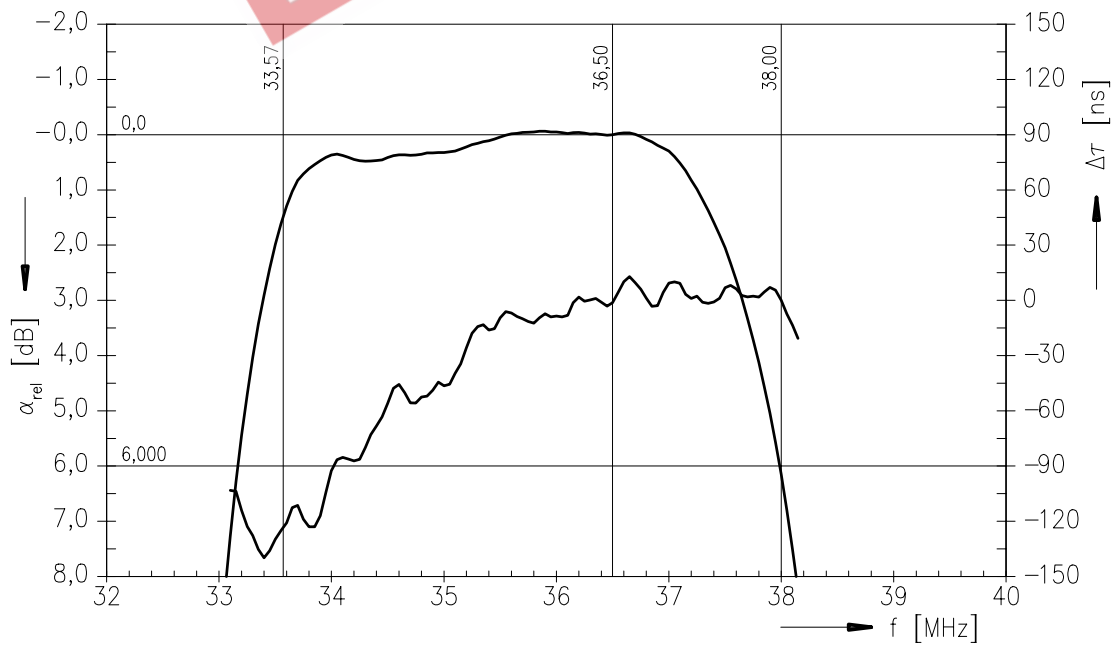
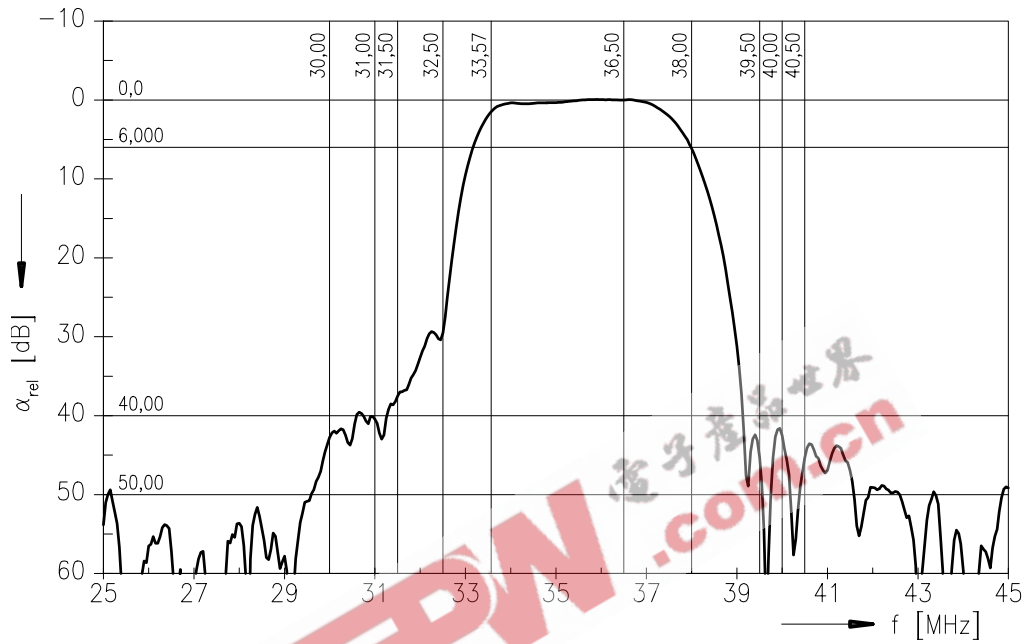
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Frequency response of picture channel





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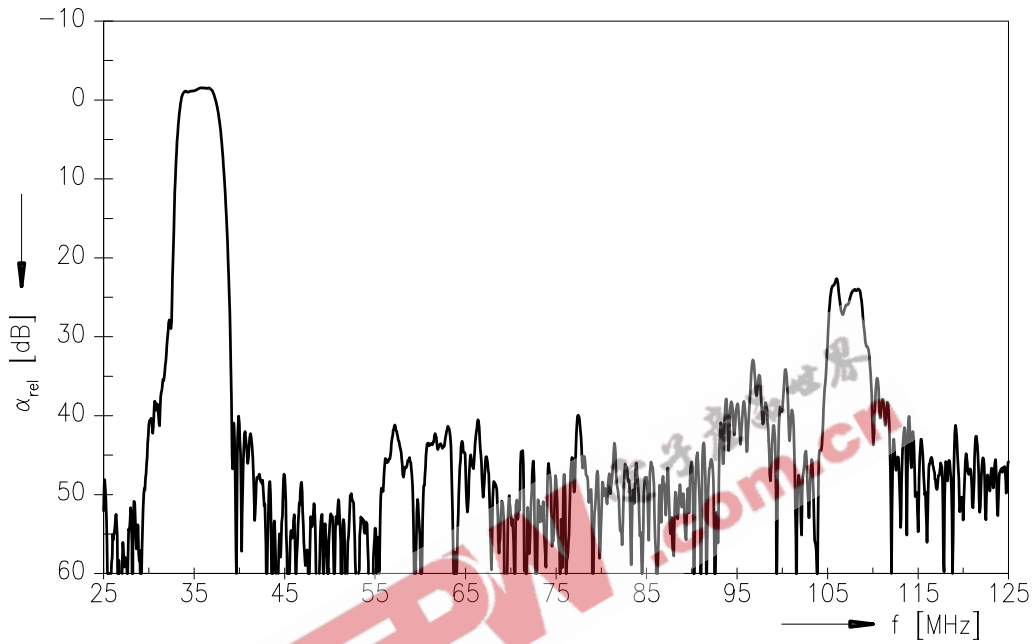
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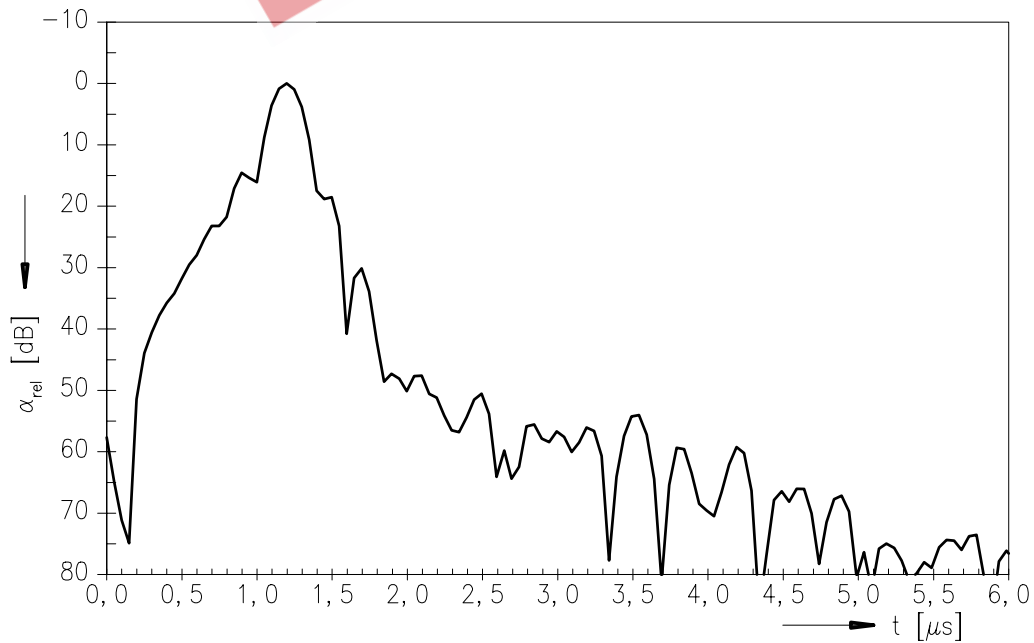
38,00 MHz

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Frequency response of picture channel



Time domain response of picture channel





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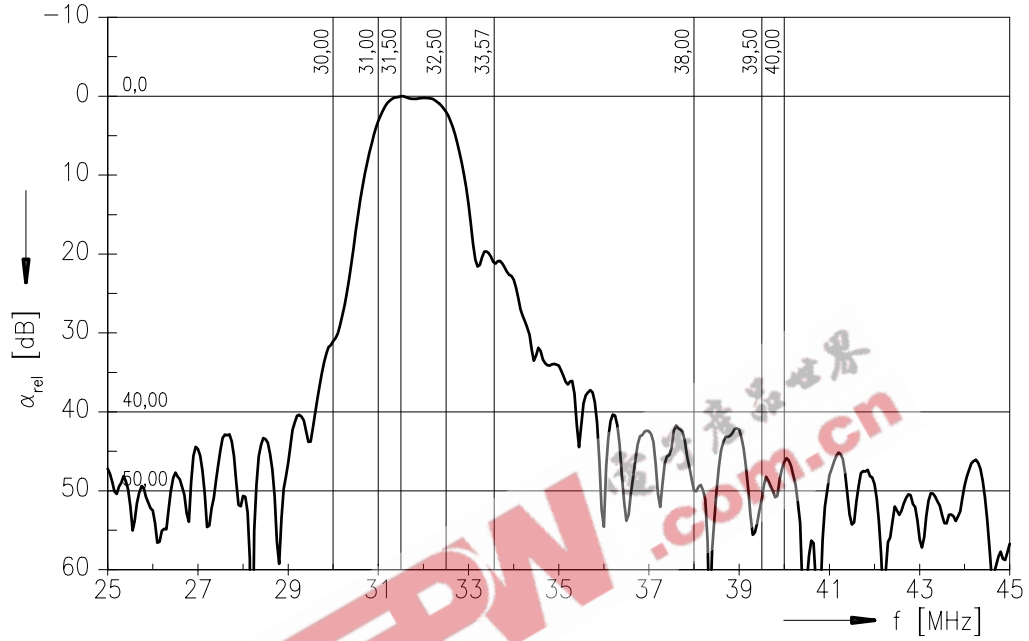
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Frequency response of sound channel





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