



SAW Components

Data Sheet K 3958 M





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K 3958 M

IF Filter for Video Applications

33,90 MHz and 38,90 MHz

Data Sheet

Standard

- B/G
- D/K
- I
- L/L'

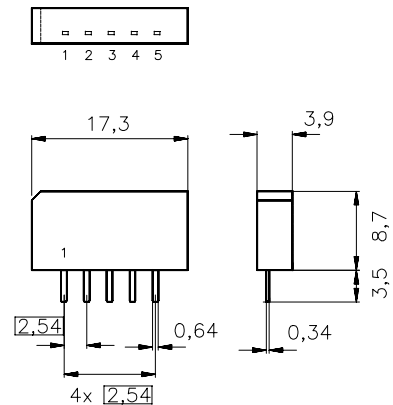
Plastic package **SIP5K**

Features

- TV IF filter with Nyquist slopes at 33.90 MHz and 38.90 MHz
- Constant group delay

Terminals

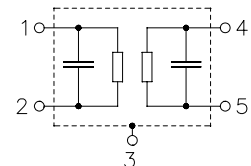
- Tinned CuFe alloy



Dimensions in mm, approx. weight 1,0 g

Pin configuration

- 1 Input
- 2 Input - ground
- 3 Chip - carrier ground
- 4 Output
- 5 Output



Type	Ordering code	Marking and package according to	Packing according to
K 3958 M	B38389-K3958-M100	C61157-A1-A15	F61064-V8067-Z000

Maximum ratings

Operable temperature range	T_A	-25/+65	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	5	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals



Data Sheet

Characteristics

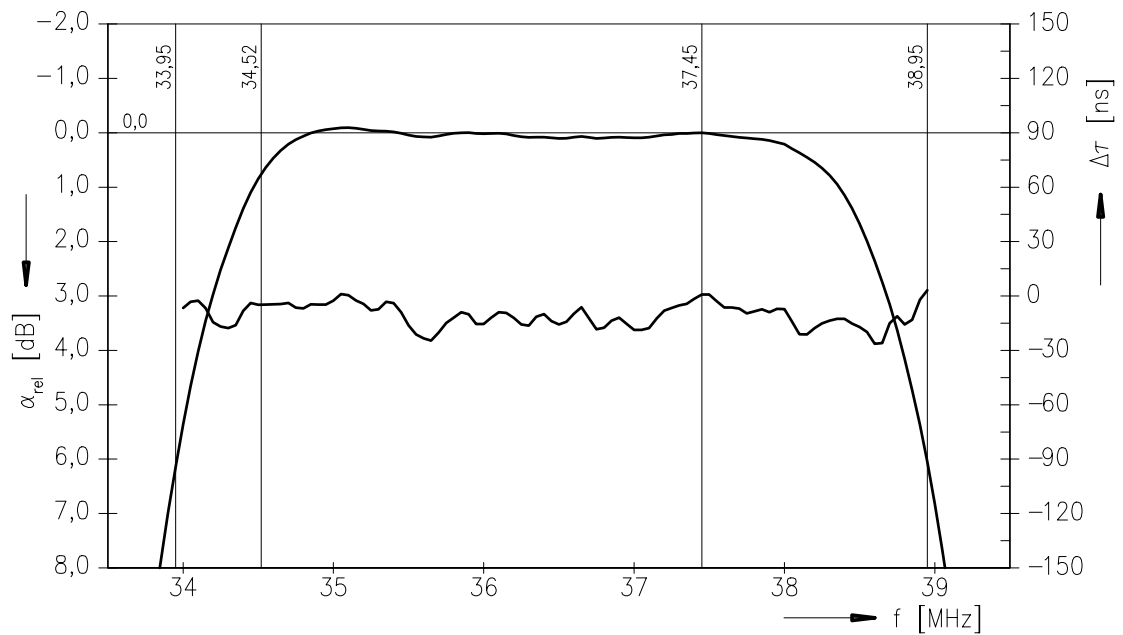
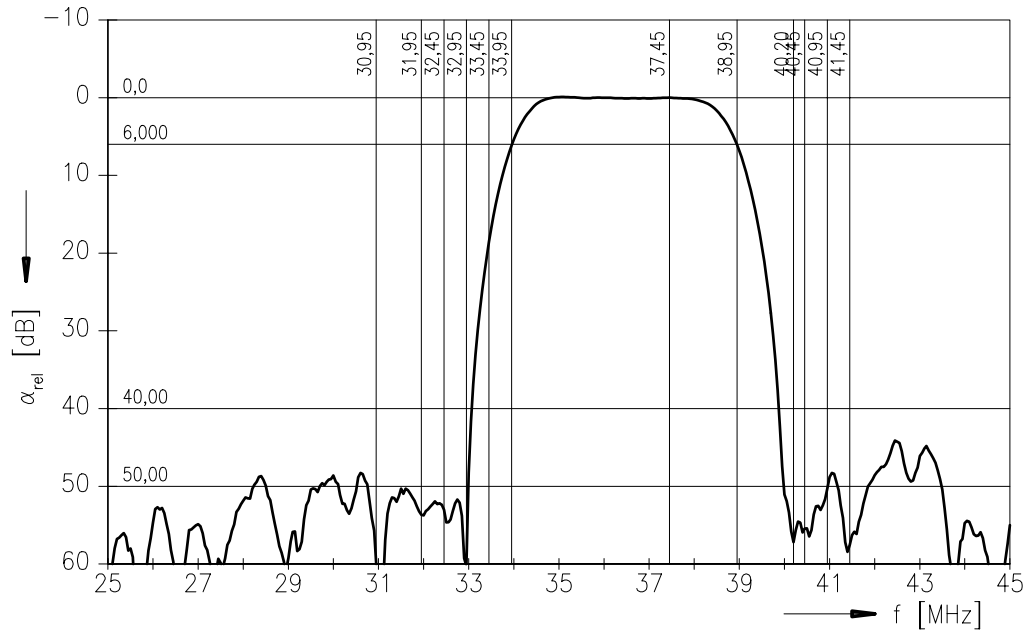
Reference temperature: $T_A = 25 (45) \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

		min.	typ.	max.	
Insertion attenuation					
	α				
Reference level for the following data	37,45 (37,40) MHz	13,5	15,0	16,5	dB
Relative attenuation					
	α_{rel}				
Picture carrier	38,95 (38,90) MHz	5,0	6,0	7,0	dB
	33,95 (33,90) MHz	4,8	5,8	6,8	dB
Color carrier	34,52 (34,47) MHz	-0,4	0,6	1,6	dB
Sound carrier	32,45 (32,40) MHz	—	57,0	—	dB
	32,95 (32,90) MHz	—	58,0	—	dB
	33,45 (33,40) MHz	16,0	18,2	—	dB
Adjacent picture carrier	30,95 (30,90) MHz	47,0	60,0	—	dB
	31,95 (31,90) MHz	47,0	55,0	—	dB
Adjacent sound carrier	40,45 (40,40) MHz	46,0	60,0	—	dB
	40,20 (40,15) MHz	42,0	52,0	—	dB
	40,95 (40,90) MHz	43,0	51,0	—	dB
	41,45 (41,40) MHz	45,0	60,0	—	dB
Lower sidelobe	25,05 ... 31,95 (25,00 ... 31,90) MHz	42,0	48,0	—	dB
Upper sidelobe	40,45 ... 45,05 (40,40 ... 45,00) MHz	38,0	45,0	—	dB
Reflected wave signal suppression					
1,2 μs ... 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 37,45 MHz)		42,0	52,0	—	dB
Feedthrough signal suppression					
1,0 μs ... 0,9 μs before main pulse (test pulse 250 ns, carrier frequency 37,45 MHz)		50,0	56,0	—	dB
Group delay ripple (p-p, aperture 50 kHz)					
	$\Delta\tau$				
33,95 ... 38,95 (33,90 ... 38,90) MHz		—	40	—	ns
Impedance at 37,45 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	2,2 \parallel 10,8	—	k Ω \parallel pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	1,9 \parallel 3,9	—	k Ω \parallel pF
Temperature coefficient of frequency					
	TC_f	—	-72	—	ppm/K



Data Sheet

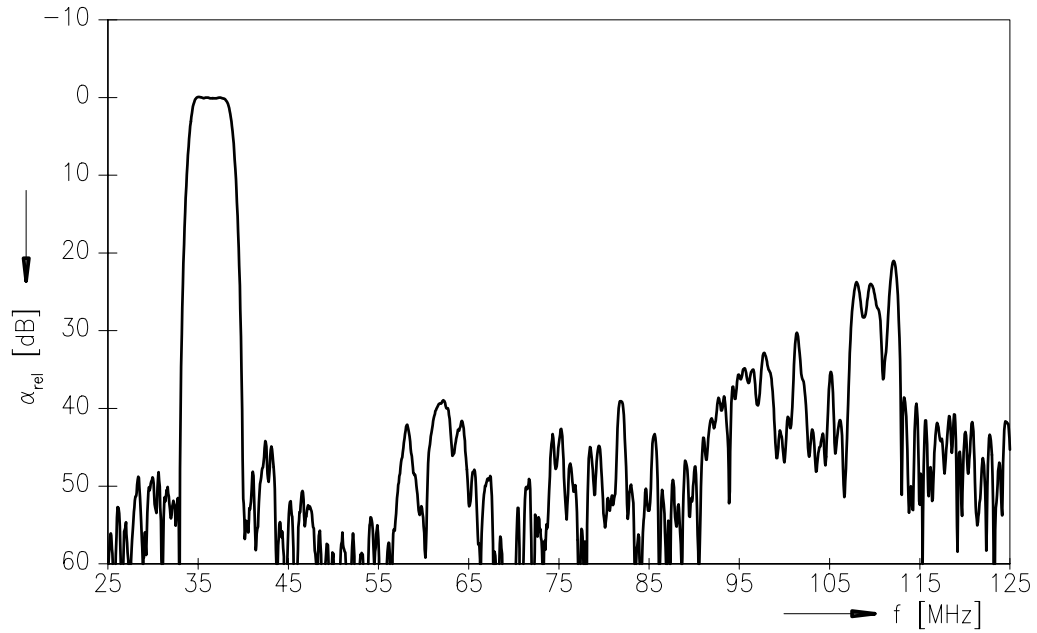
Frequency response



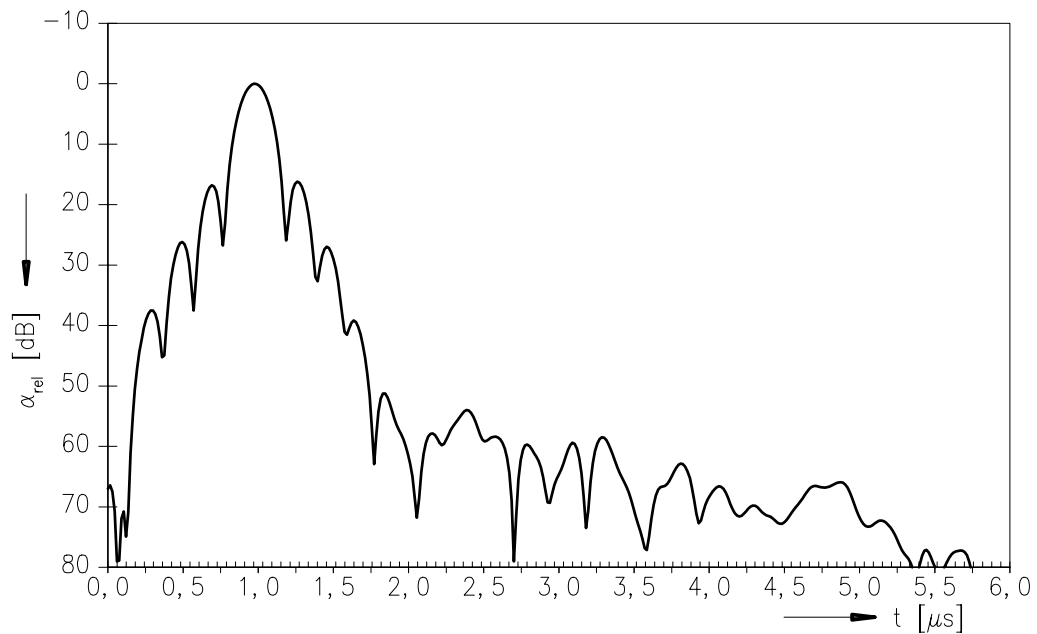


Data Sheet

Frequency response



Time domain response





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