



SAW Components

Data Sheet K 3958 M





SAW Components

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'

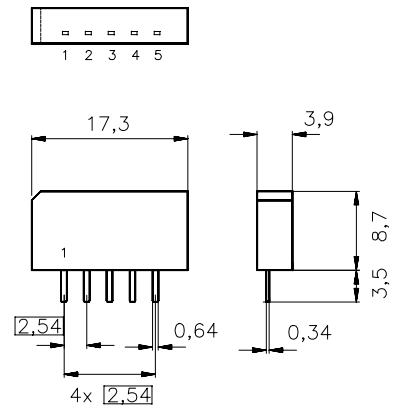
Plastic package **SIP5K**

Features

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

Terminals

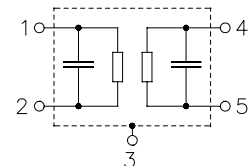
- Tinned CuFe alloy



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


SAW Components
K 3958 M
IF Filter for Video Applications
33,90 MHz and 38,90 MHz
Data Sheet
Characteristics

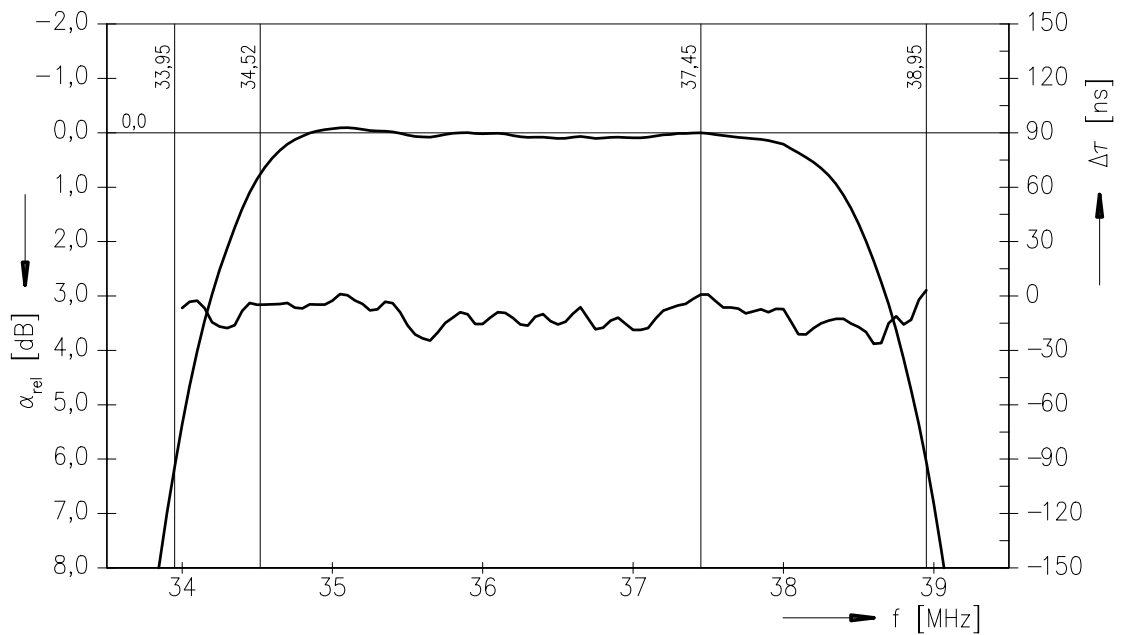
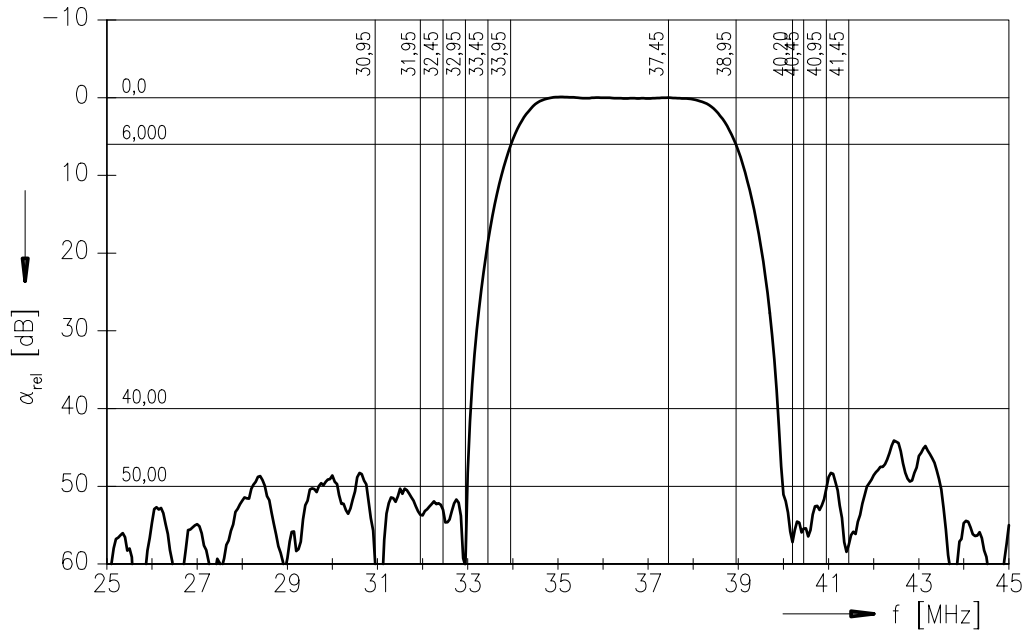
Reference temperature: $T_A = 25 (45) \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

		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: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	2,2 \parallel 10,8	—	k Ω \parallel pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	1,9 \parallel 3,9	—	k Ω \parallel pF
Temperature coefficient of frequency					
	TC_f	—	-72	—	ppm/K



Data Sheet

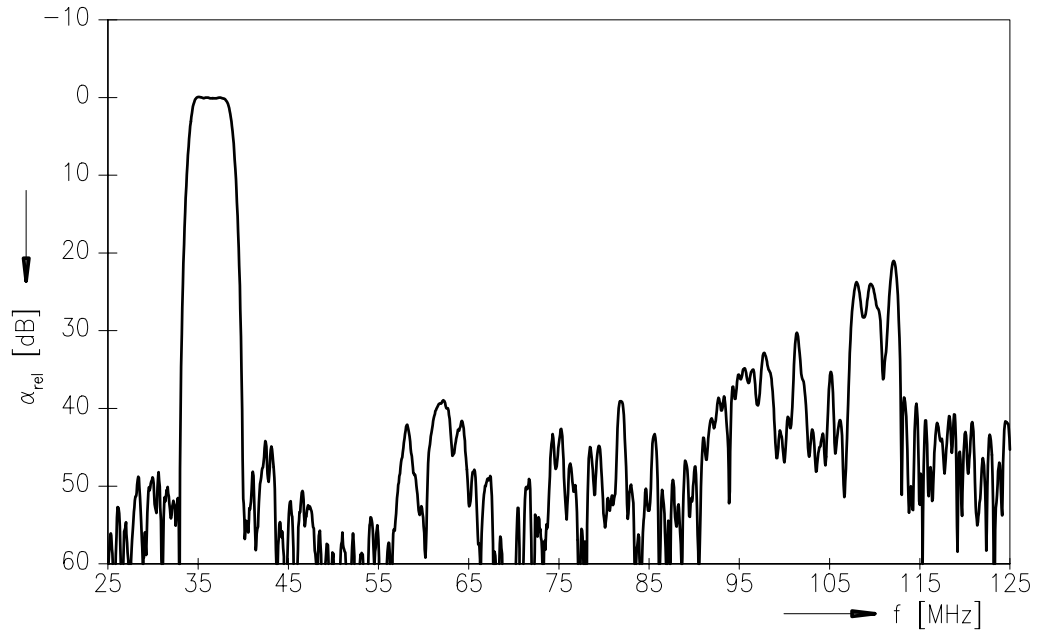
Frequency response



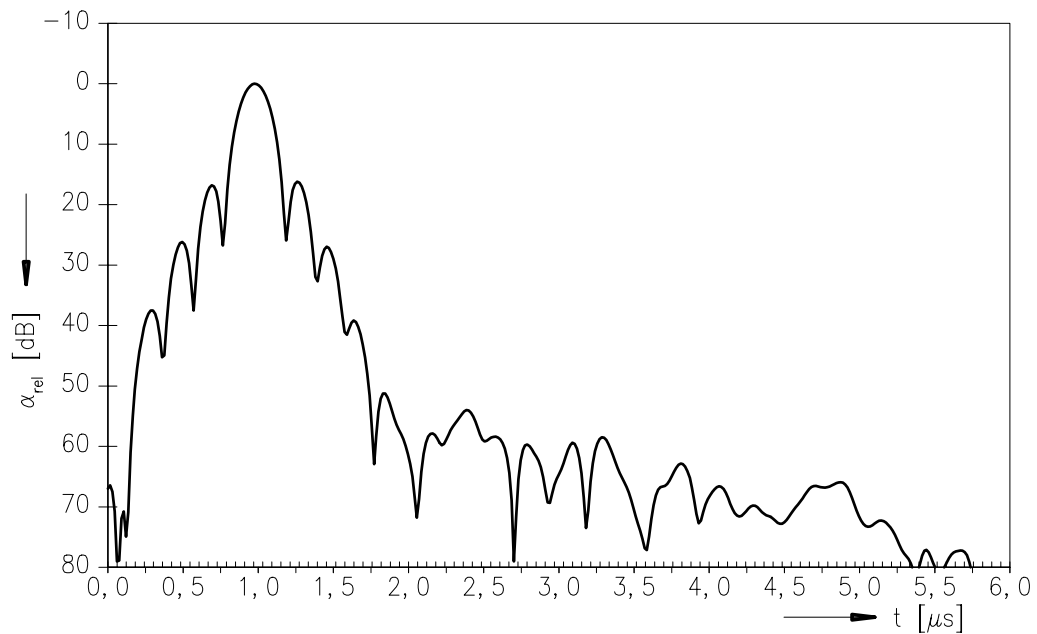


Data Sheet

Frequency response



Time domain response





SAW Components

K 3958 M

IF Filter for Video Applications

33,90 MHz and 38,90 MHz

Data Sheet

Published by EPCOS AG

Surface Acoustic Wave Components Division, SAW CE MM PD

P.O. Box 80 17 09, D-81617 München

© EPCOS AG 2001. All Rights Reserved.

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.

Terms of delivery and rights to change design reserved.

For questions on technology, prices and delivery please contact the sales offices of EPCOS AG or the international representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our sales offices.