EPCOS

SAW Components

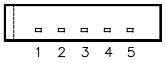
Data Sheet K 2958 M

Data Sheet

Standard

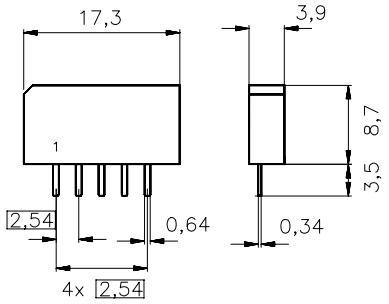
Plastic package **SIP5K**

- B/G
- D/K



Features

- TV IF filter with Nyquist slope and sound shelf
- Broad sound shelf for sound carriers at 31,50 MHz and 32,50 MHz
- High color carrier level
- Constant group delay



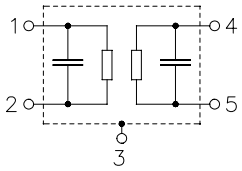
Terminals

- 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 2958 M	B39380-K2958-M100	C61157-A1-A15	F61074-V8067-Z000

Maximum ratings

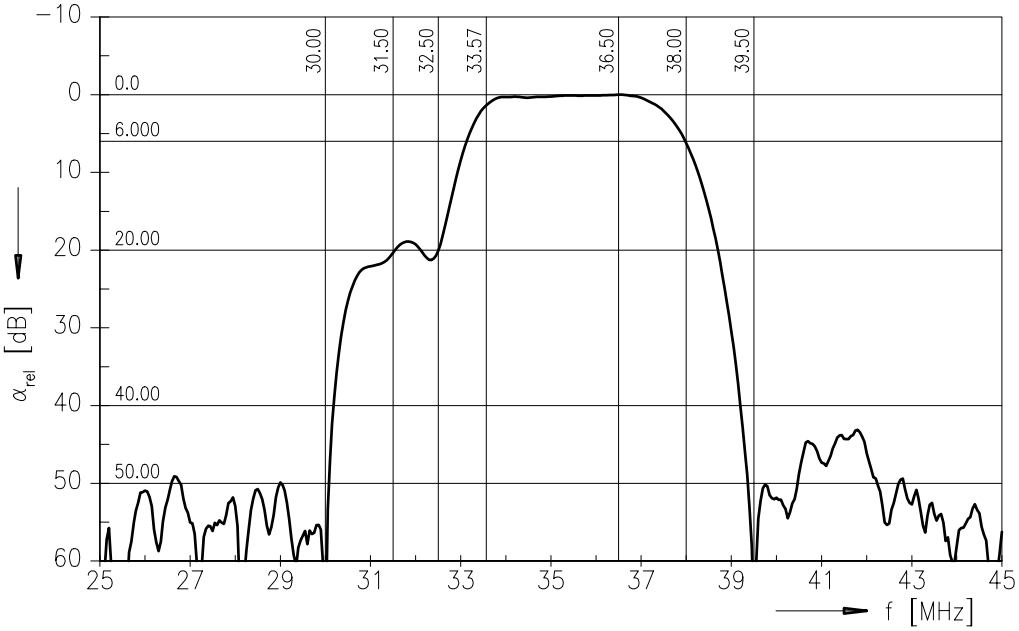
Operable temperature range	T_A	–25/+65	˚C	
Storage temperature range	T_{stg}	–40/+85	˚C	
DC voltage	V_{DC}	12	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals

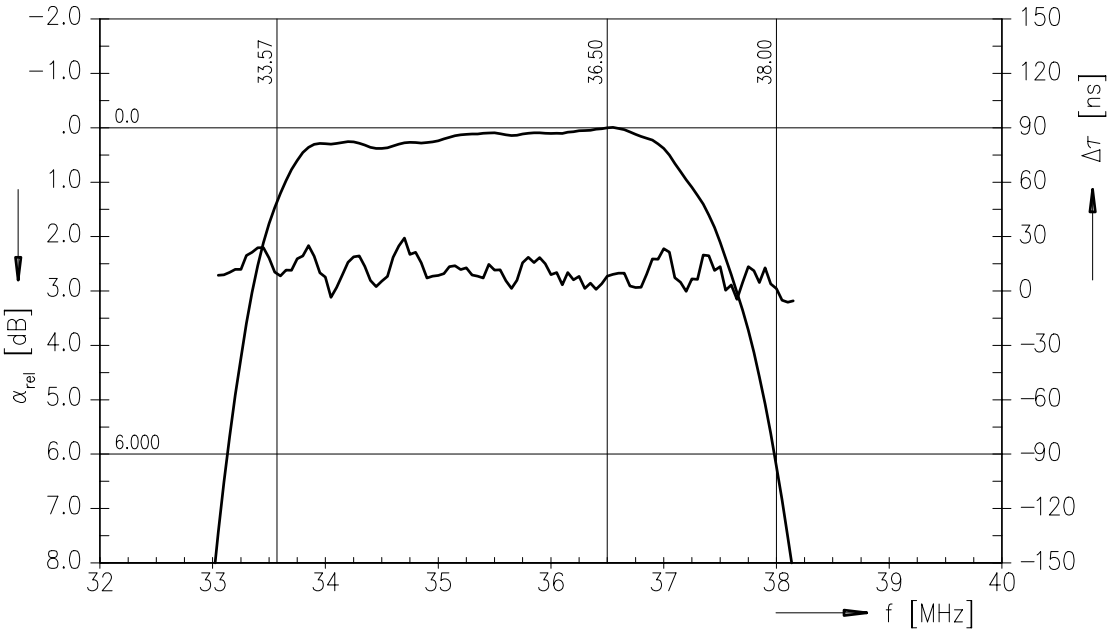
Characteristics

Reference temperature: T_A = 25 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 2 kΩ || 3 pF

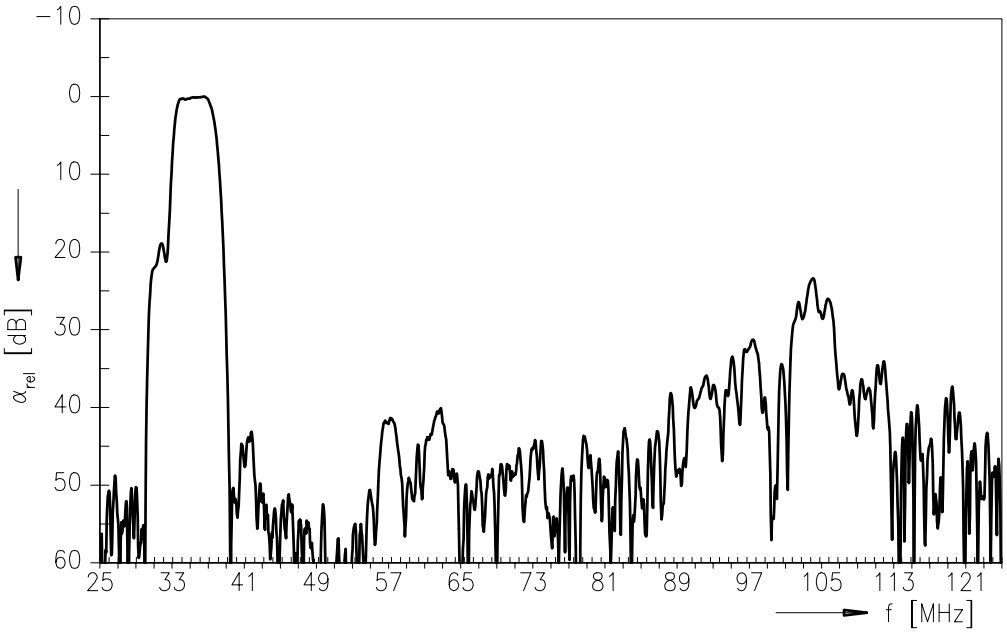
				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the following data		36,50 MHz		15,6	17,1	18,6	dB
Relative attenuation			α_{rel}				
Picture carrier		38,00 MHz		5,0	6,0	7,0	dB
Color carrier		33,57 MHz		0,4	1,4	2,4	dB
Sound carrier		31,50 MHz		18,7	20,2	21,7	dB
		32,50 MHz		18,3	19,8	21,3	dB
Adjacent picture carrier		30,00 MHz		46,0	60,0	—	dB
Adjacent sound carrier		39,50 MHz		42,0	55,0	—	dB
Lower sidelobe	25,00 ...	30,00 MHz		41,0	47,0	—	dB
Upper sidelobe	39,50 ...	45,00 MHz		37,0	43,0	—	dB
Reflected wave signal suppression							
1,1 µs ... 6,0 µs after main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)				42,0	52,0	—	dB
Feedthrough signal suppression							
1,1 µs ... 1,0 µs before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)				50,0	56,0	—	dB
Group delay ripple (p-p)			$\Delta\tau$	—	50	—	ns
Impedance at 36,50 MHz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				—	2,1 ‖ 11,0	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$				—	4,3 ‖ 2,7	—	kΩ || pF
Temperature coefficient of frequency			TC_f	—	–72	—	ppm/K

Frequency response

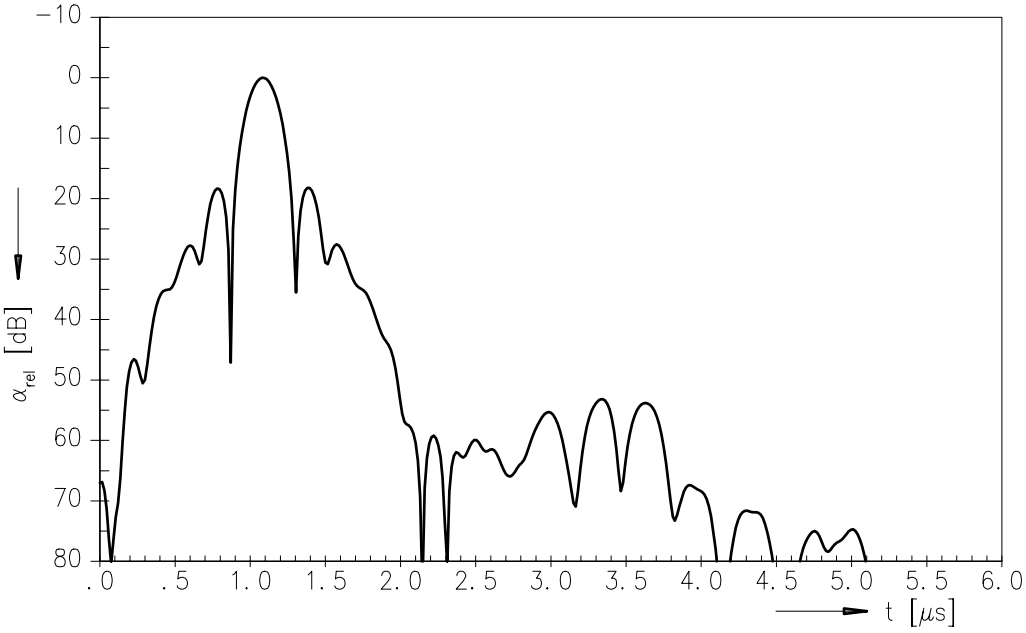




Frequency response



Time domain response



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