EPCOS

SAW Components

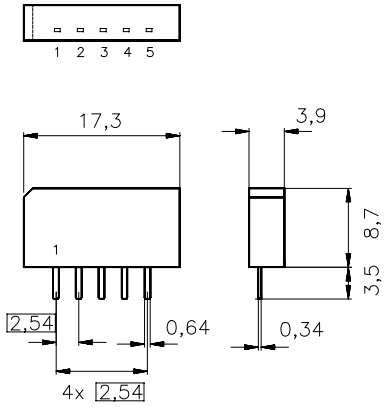
Data Sheet K 2959 M

Data Sheet

Standard

- B/G
- D/K

Plastic package **SIP5K**



Dimensions in mm, approx. weight 1,0 g

Features

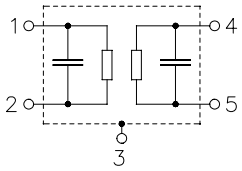
- TV IF filter with Nyquist slope and sound shelf
- Broad sound shelf for sound carriers at 31,50 MHz and 32,50 MHz
- High color carrier level
- Constant group delay

Terminals

- Tinned CuFe alloy

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 2959 M	B39380-K2959-M100	C61157-A1-A15	F61074-V8067-Z000

Maximum ratings

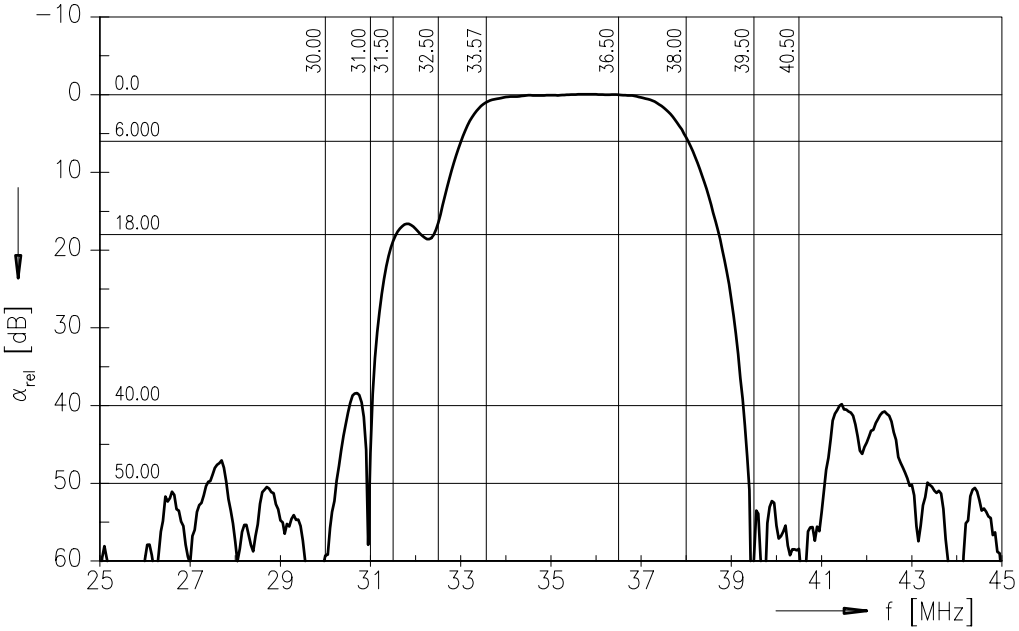
Operable temperature range	T_A	–25/+65	˚C	
Storage temperature range	T_{stg}	–40/+85	˚C	
DC voltage	V_{DC}	12	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals

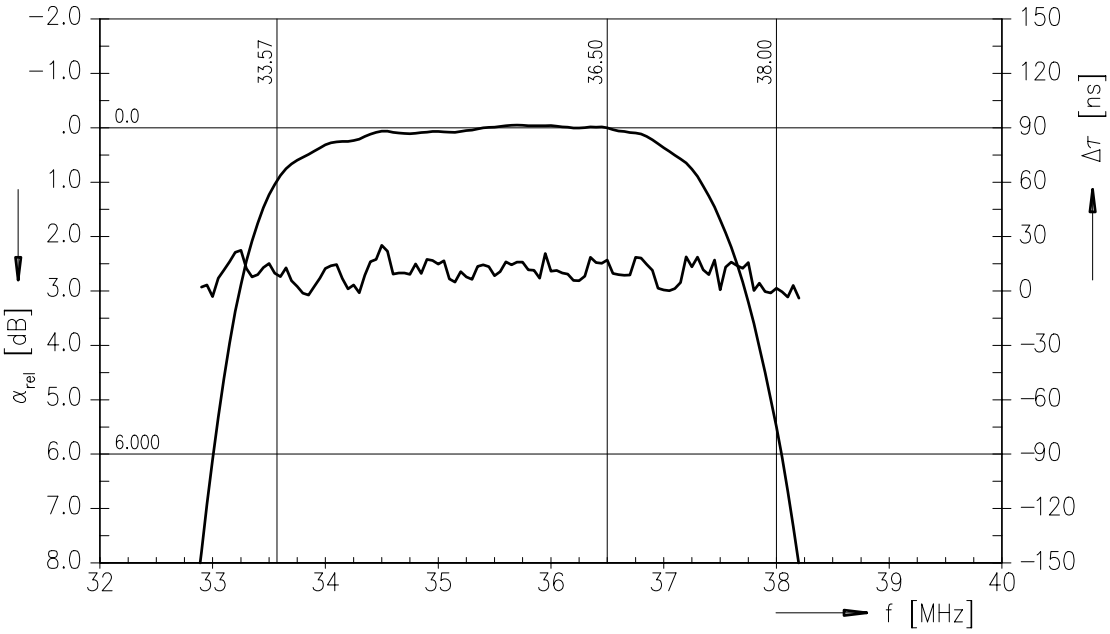
Characteristics

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

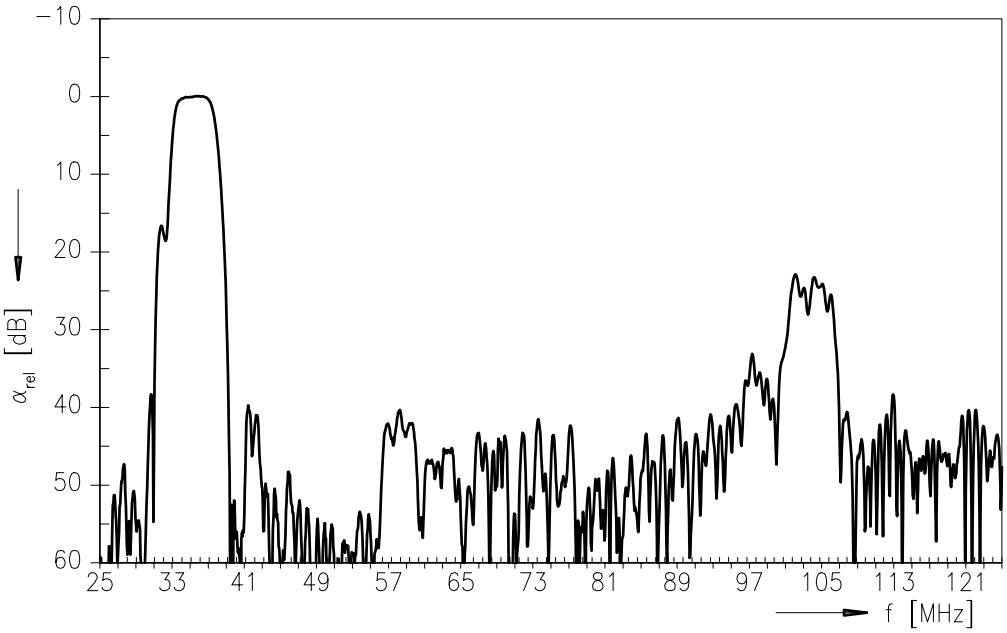
			min.	typ.	max.	
Insertion attenuation		α				
Reference level for the following data	36,50 MHz		16,5	18,0	19,5	dB
Relative attenuation		α_{rel}				
Picture carrier	38,00 MHz		4,1	5,1	6,1	dB
Color carrier	33,57 MHz		0,0	1,0	2,0	dB
Sound carrier	31,50 MHz		17,9	19,4	—	dB
	32,50 MHz		15,5	17,0	18,5	dB
Adjacent picture carrier	30,00 MHz		46,0	55,0	—	dB
	31,00 MHz		40,0	56,0	—	dB
Adjacent sound carrier	39,50 MHz		42,0	52,0	—	dB
	40,50 MHz		43,0	54,0	—	dB
Lower sidelobe	25,00 ... 30,00 MHz		40,0	46,0	—	dB
Upper sidelobe	39,50 ... 45,00 MHz		35,0	41,0	—	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)		Δτ	—	30	—	ns
Impedance at 36,50 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			—	3,0 || 10,8	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			—	3,6 || 2,7	—	kΩ || pF
Temperature coefficient of frequency		TC_f	—	–72	—	ppm/K

Frequency response

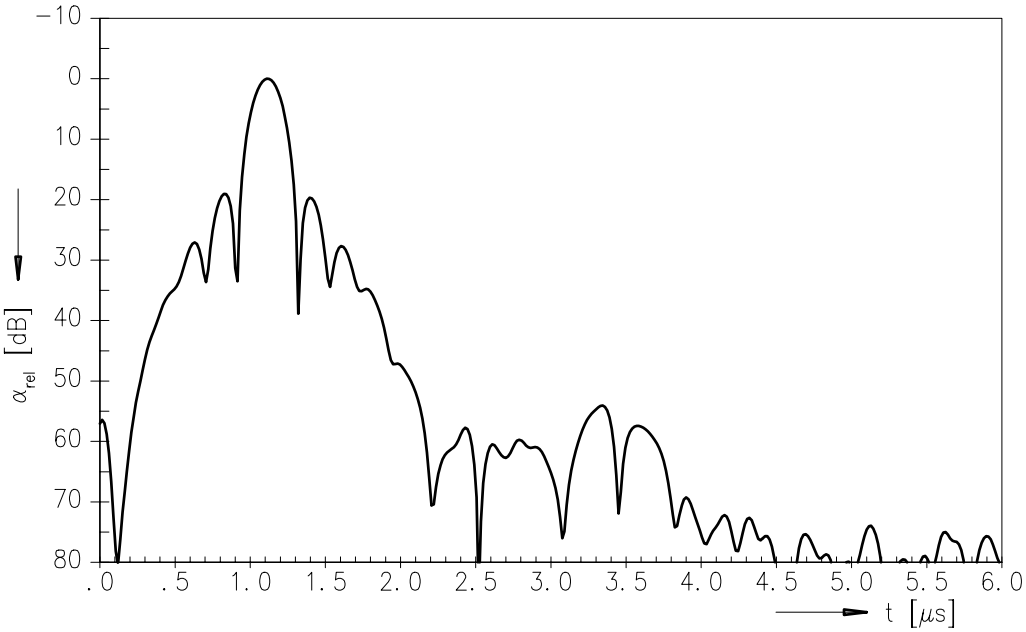




Frequency response



Time domain response



Published by EPCOS AG
Surface Acoustic Wave Components Division, SAW CE MM PD
P.O. Box 80 17 09, D-81617 München

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