EPCOS

SAW Components

Data Sheet G 1965 M

Data Sheet

Standard

- B/G

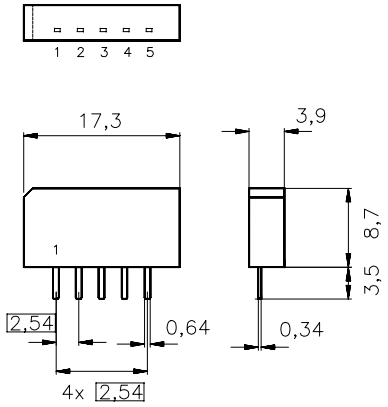
Features

- TV IF filter with Nyquist slope and sound shelf
- High color carrier level
- Constant group delay
- Suitable for CENELEC EN 55020

Terminals

- Tinned CuFe alloy

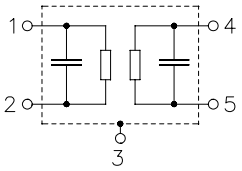
Plastic package **SIP5K**



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
G 1965 M	B39389-G1965-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

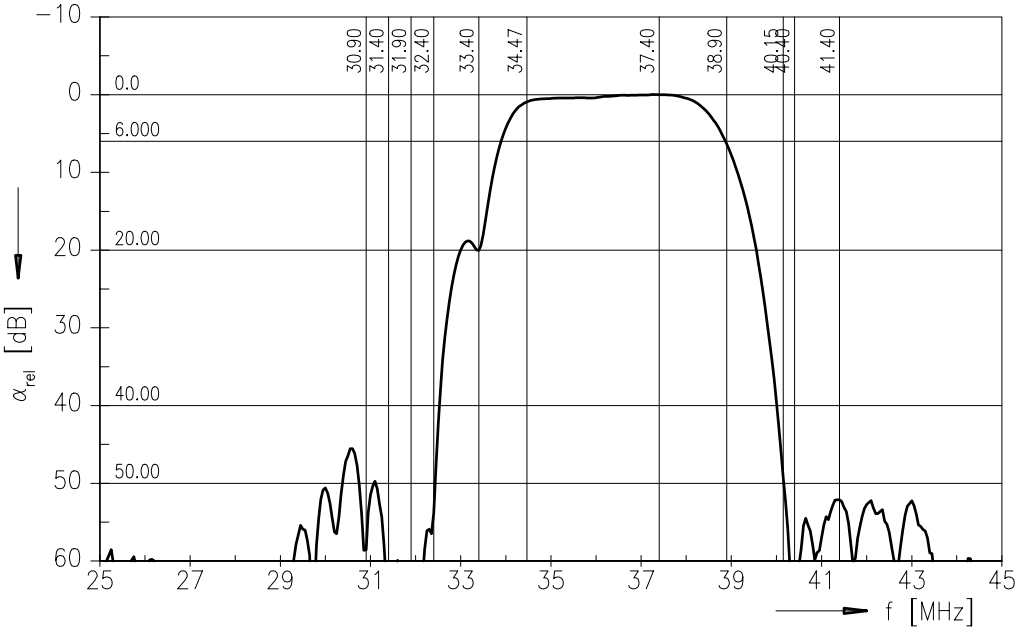
Data Sheet

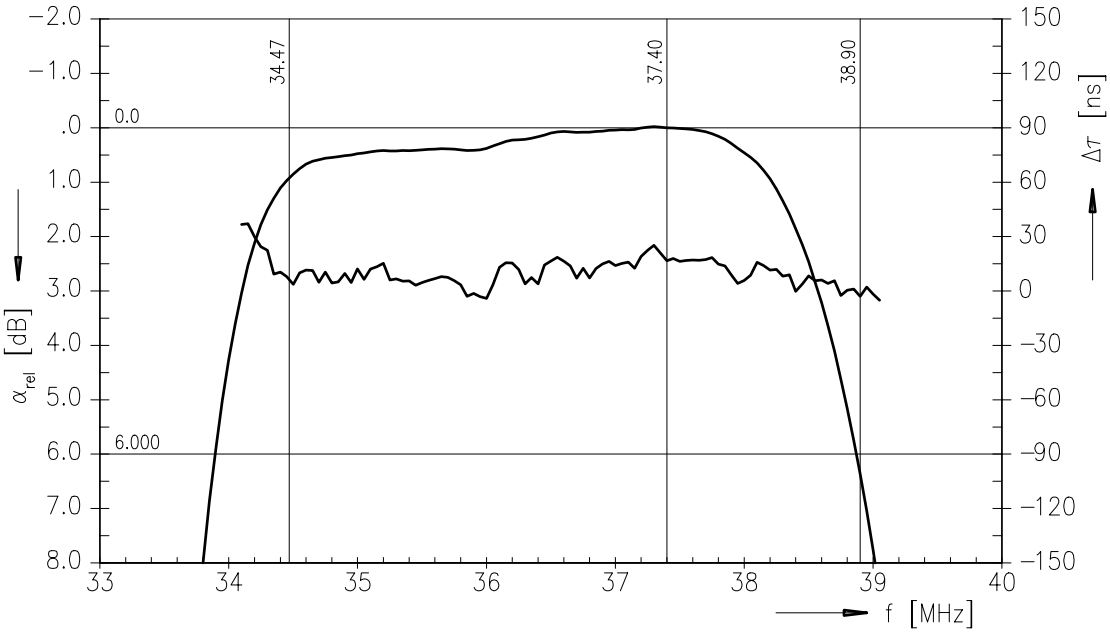
Characteristics

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

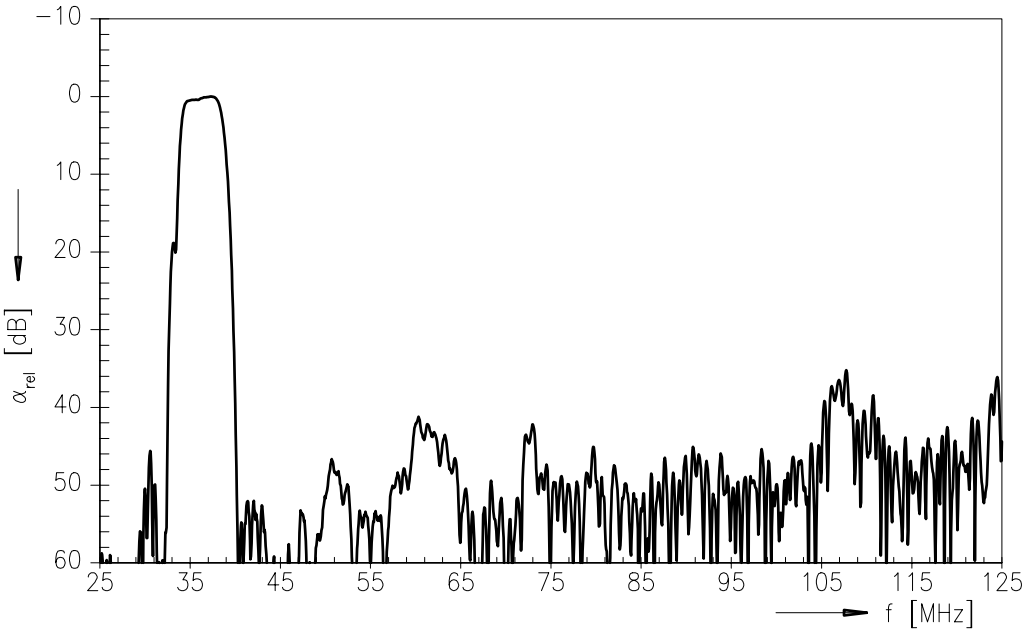
			min.	typ.	max.	
Insertion attenuation		α				
Reference level for the following data	37,40 MHz		13,6	15,1	16,6	dB
Relative attenuation		α_{rel}				
Picture carrier	38,90 MHz		5,0	6,0	7,0	dB
	33,90 MHz		—	6,2	—	dB
Color carrier	34,47 MHz		0,0	1,0	2,0	dB
Sound carrier	33,40 MHz		18,9	20,4	21,9	dB
Adjacent picture carrier UHF	30,90 MHz		45,0	57,0	—	dB
VHF	31,90 MHz		48,0	55,0	—	dB
	31,40 MHz		46,0	61,0	—	dB
	32,40 MHz		48,0	55,0	—	dB
	40,15 MHz		38,0	48,0	—	dB
Adjacent sound carrier VHF	40,40 MHz		44,0	55,0	—	dB
UHF	41,40 MHz		42,0	53,0	—	dB
Lower sidelobe	25,00 ... 31,90 MHz		40,0	47,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz		38,0	48,0	—	dB
Reflected wave signal suppression						
1,1 µs ... 6,0 µs after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)			42,0	53,0	—	dB
Feedthrough signal suppression						
1,3 µs ... 1,1 µs before main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)			50,0	56,0	—	dB
Group delay ripple (p-p)		$\Delta\tau$	—	50	—	ns
Impedance at 37,40 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			—	1,9 ‖ 13,8	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			—	1,5 ‖ 4,8	—	kΩ || pF
Temperature coefficient of frequency		TC_f	—	–72	—	ppm/K

Frequency response

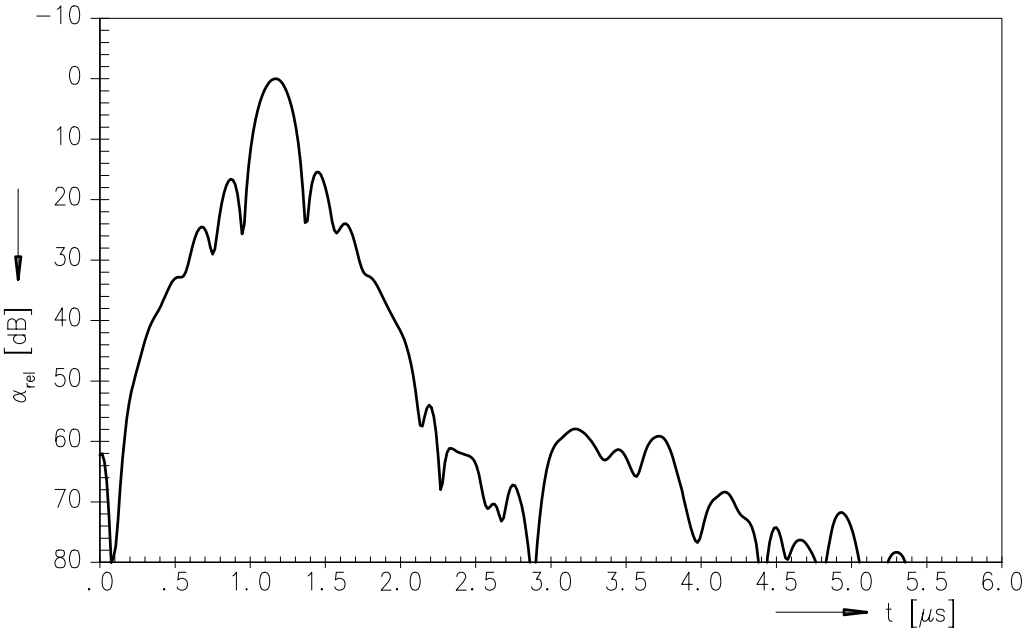




Frequency response



Time domain response



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