EPCOS

SAW Components

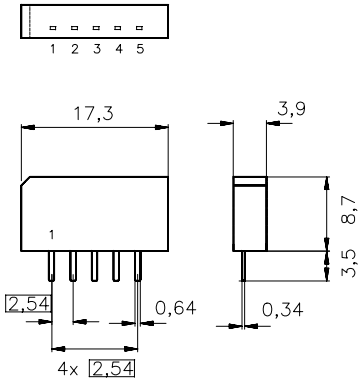
Data Sheet G 1865 M

Data Sheet

Standard

Plastic package **SIP5K**

- B/G



Dimensions in mm, approx. weight 1,0 g

Features

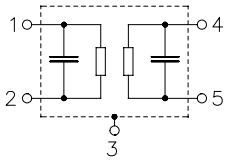
- TV IF filter with Nyquist slope and sound shelf
- Reduced group delay predistortion as compared with standard B/G, half

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
G 1865 M	B39389-G1865-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}	5	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals

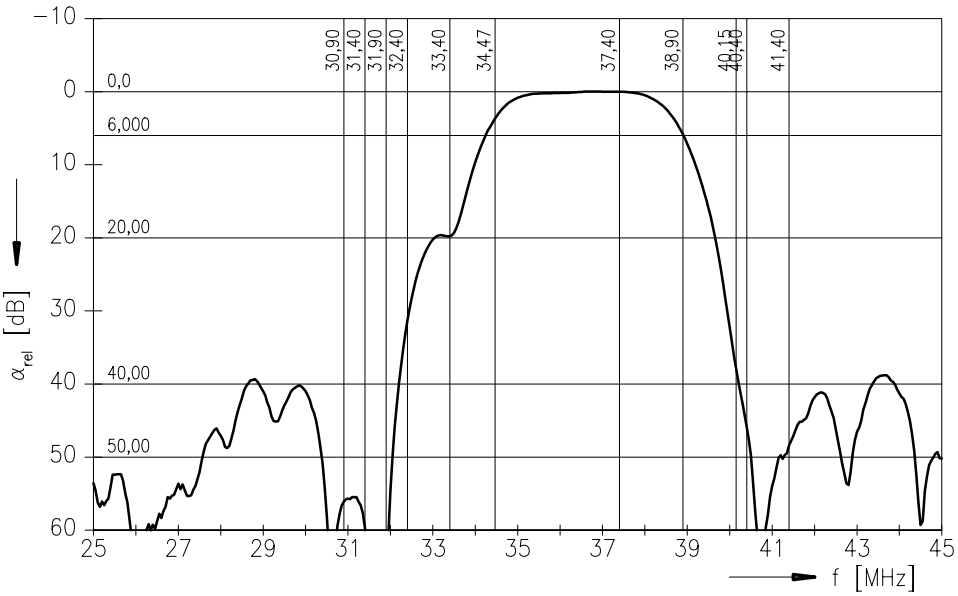
Data Sheet

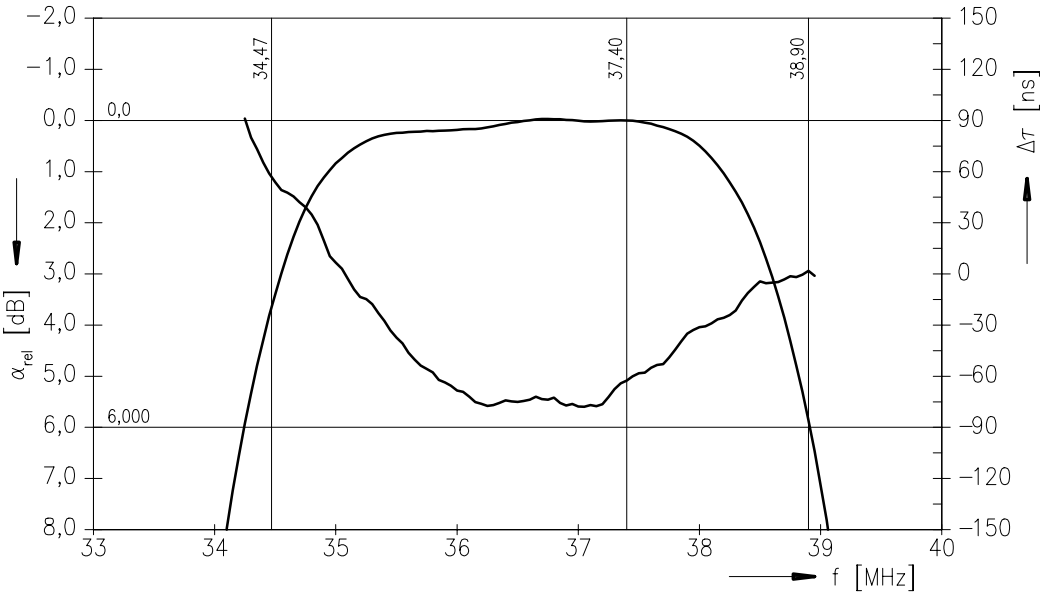
Characteristics

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

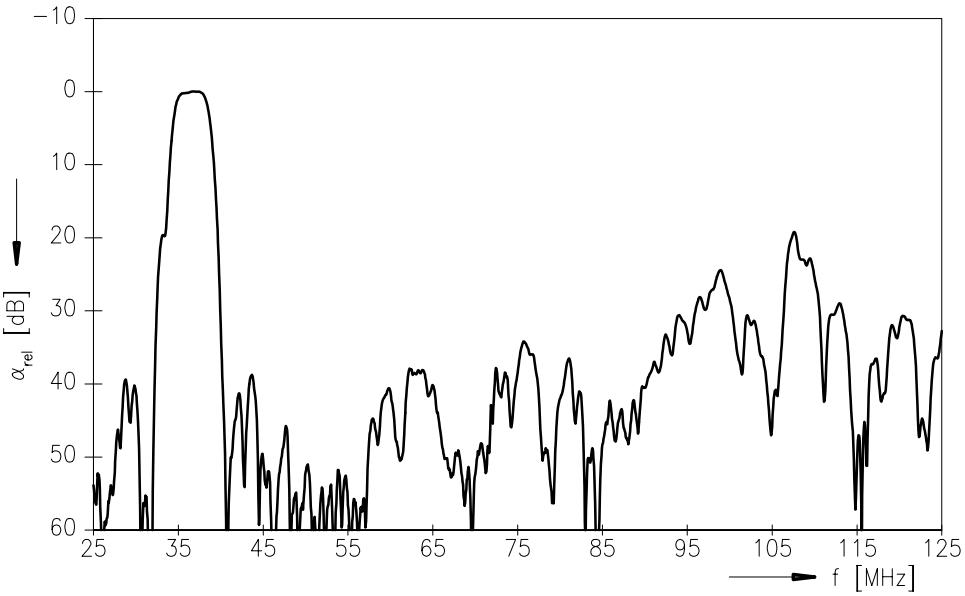
			min.	typ.	max.	
Insertion attenuation		α				
Reference level for the following data	37,40 MHz		14,0	15,5	17,0	dB
Relative attenuation		α_{rel}				
Picture carrier	38,90 MHz		4,7	5,7	6,7	dB
Color carrier	34,47 MHz		2,7	3,7	4,7	dB
Sound carrier	33,40 MHz		18,2	19,7	21,2	dB
Adjacent picture carrier	30,90 MHz		42,0	54,0	—	dB
	31,90 MHz		42,0	65,0	—	dB
	31,40 MHz		42,0	57,0	—	dB
	32,40 MHz		—	32,0	—	dB
	40,15 MHz		—	37,0	—	dB
Adjacent sound carrier	40,40 MHz		36,0	45,0	—	dB
	41,40 MHz		38,0	51,0	—	dB
Lower sidelobe	25,00 ... 31,90 MHz		34,0	40,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz		33,0	39,0	—	dB
Reflected wave signal suppression						
1,3 µs ... 6,0 µs after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)			42,0	52,0	—	dB
Feedthrough signal suppression						
0,8 µs ... 0,7 µs before main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)			50,0	56,0	—	dB
Group delay predistortion (reference frequency 38,90 MHz)		Δτ				
	36,80 MHz		—	-80	—	ns
	34,47 MHz		—	65	—	ns
Impedance at 37,40 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			—	2,1 ‖ 8,9	—	kΩ ‖ pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			—	3,5 ‖ 3,2	—	kΩ ‖ pF
Temperature coefficient of frequency		TC_f	—	–72	—	ppm/K

Frequency response

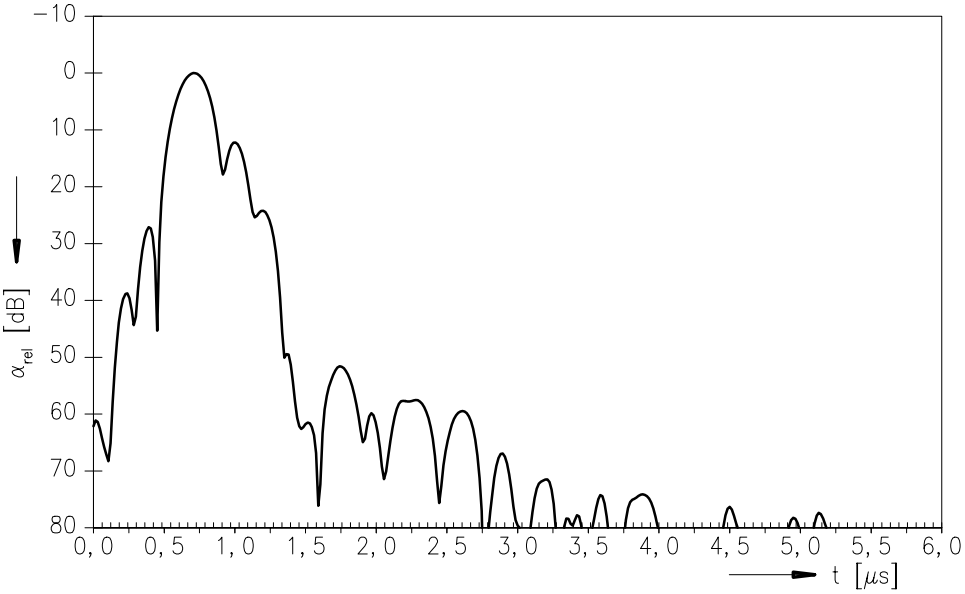




Frequency response



Time domain response



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