EPCOS

SAW Components

Data Sheet G 1963 M

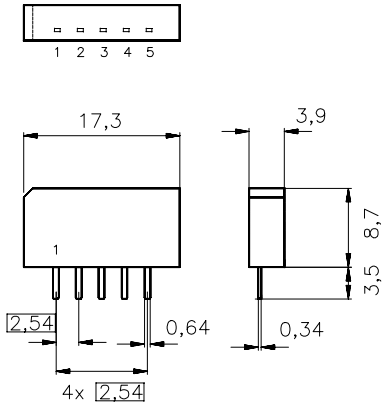


Data Sheet

Standard

Plastic package **SIP5K**

- B/G



Features

- TV IF filter with Nyquist slope and sound shelf
- High color carrier level
- Reduced group delay predistortion as compared with standard B/G, half
- Suitable for CENELEC EN 55020

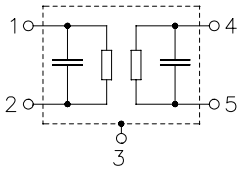
Terminals

- 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
G 1963 M	B39389-G1963-M100	C61157-A1-A15	F61074-V8067-Z000

Maximum ratings

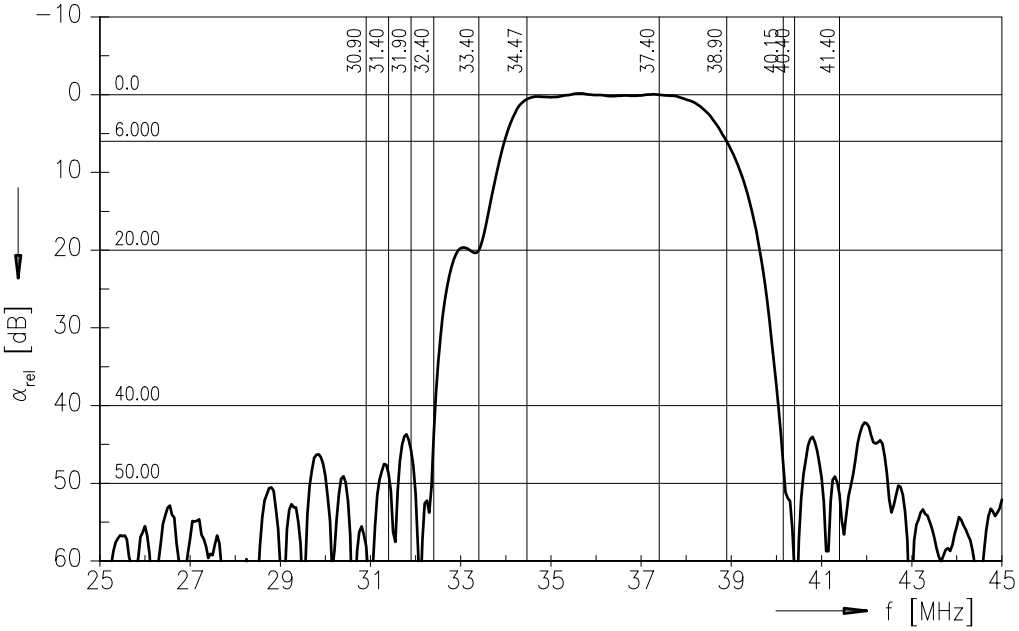
Operable temperature range	T_A	–25/+65	˚C	
Storage temperature range	T_{stg}	–40/+85	˚C	
DC voltage	V_{DC}	12	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals

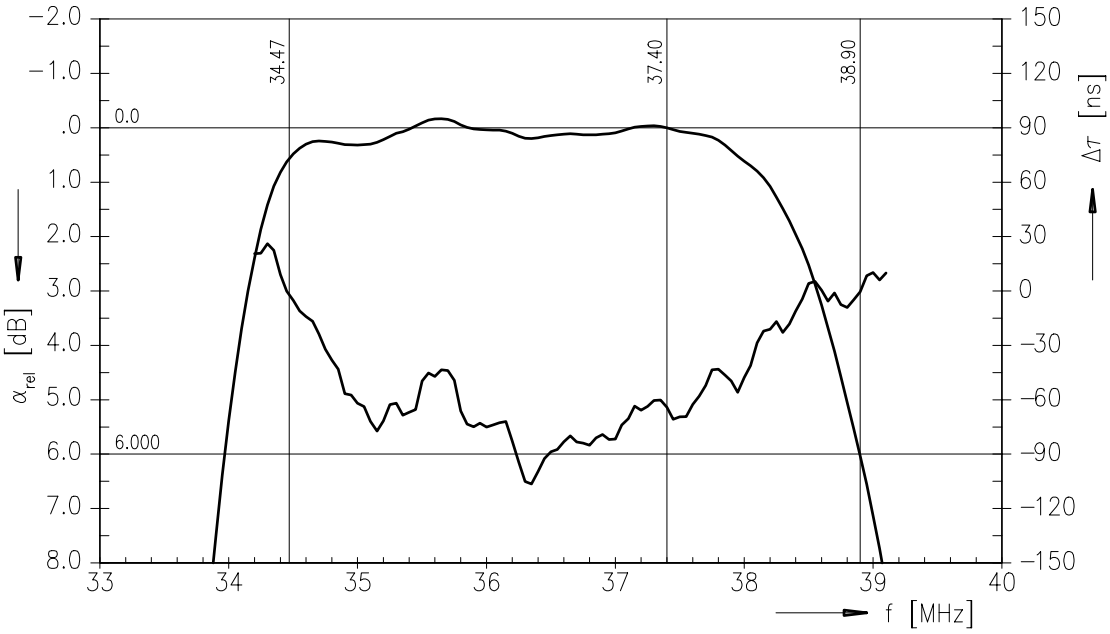
Characteristics

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

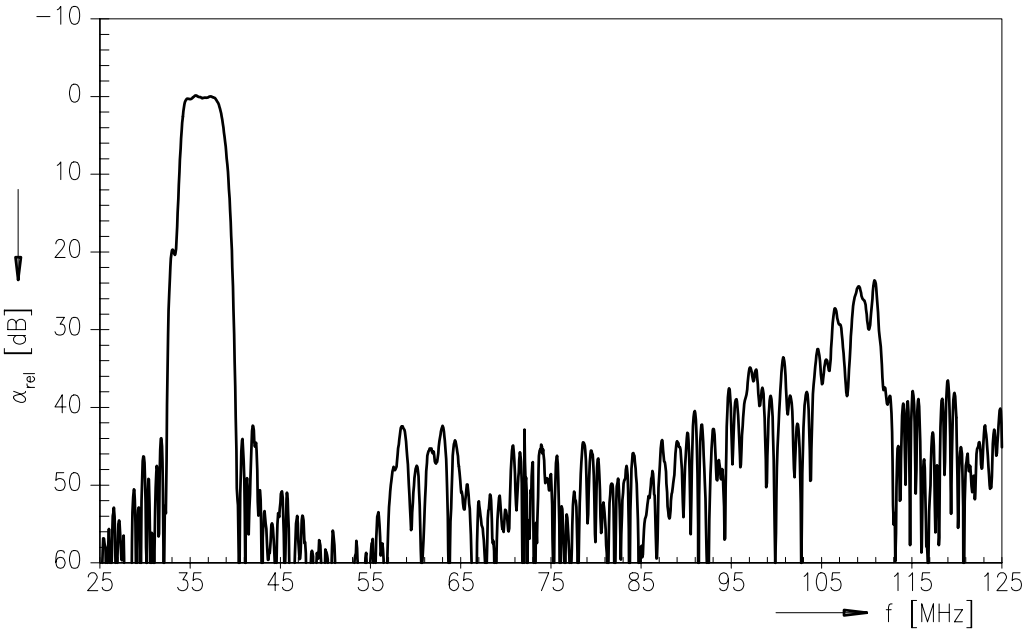
			min.	typ.	max.	
Insertion attenuation		α				
Reference level for the following data	37,40 MHz		12,7	14,2	15,7	dB
Relative attenuation		α_{rel}				
Picture carrier	38,90 MHz		4,9	5,9	6,9	dB
Color carrier	34,47 MHz		–0,4	0,6	1,6	dB
	34,15 MHz		—	3,2	—	dB
Sound carrier	33,40 MHz		19,1	20,1	21,1	dB
Adjacent picture carrier UHF	30,90 MHz		44,0	55,0	—	dB
VHF	31,90 MHz		42,0	46,0	—	dB
	32,40 MHz		42,0	46,0	—	dB
	40,15 MHz		42,0	50,0	—	dB
Adjacent sound carrier VHF	40,40 MHz		45,0	53,0	—	dB
UHF	41,40 MHz		42,0	49,0	—	dB
Lower sidelobe 25,00 ...	32,40 MHz		41,0	45,0	—	dB
Upper sidelobe 40,40 ...	45,00 MHz		36,0	40,0	—	dB
Reflected wave signal suppression						
1,1 µs ... 6,0 µs after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)			44,0	50,0	—	dB
Feedthrough signal suppression						
1,2 µs ... 1,1 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)		$\Delta\tau$				
	37,00 MHz		—	–85	—	ns
	34,47 MHz		—	0	—	ns
Impedance at 37,40 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			—	1,8 || 14,8	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			—	1,6 || 5,3	—	kΩ || pF
Temperature coefficient of frequency		TC_f	—	–72	—	ppm/K

Frequency response

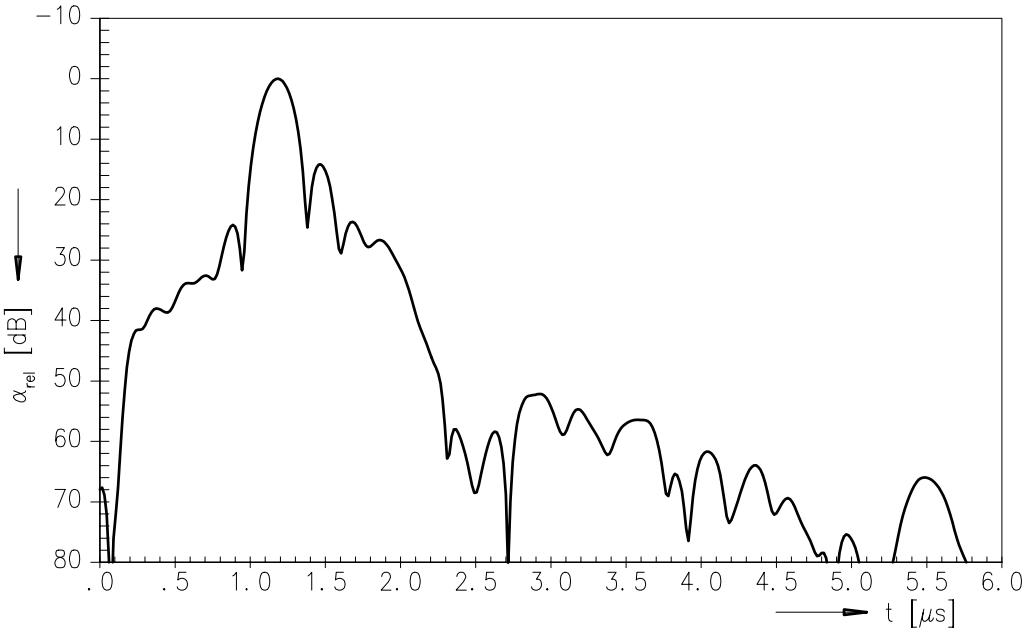




Frequency response



Time domain response



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