EPCOS

SAW Components

Data Sheet G 1962 M

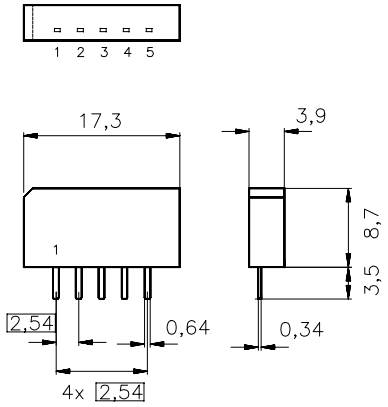


Data Sheet

Standard

Plastic package **SIP5K**

- B/G



Dimensions in mm, approx. weight 1,0 g

Features

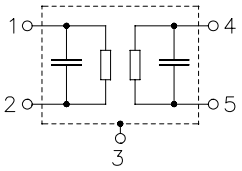
- TV IF filter with Nyquist slope and sound shelf
- Reduced group delay predistortion as compared with standard B/G, half
- Suitable for CENELEC EN 55020

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 1962 M	B39389-G1962-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

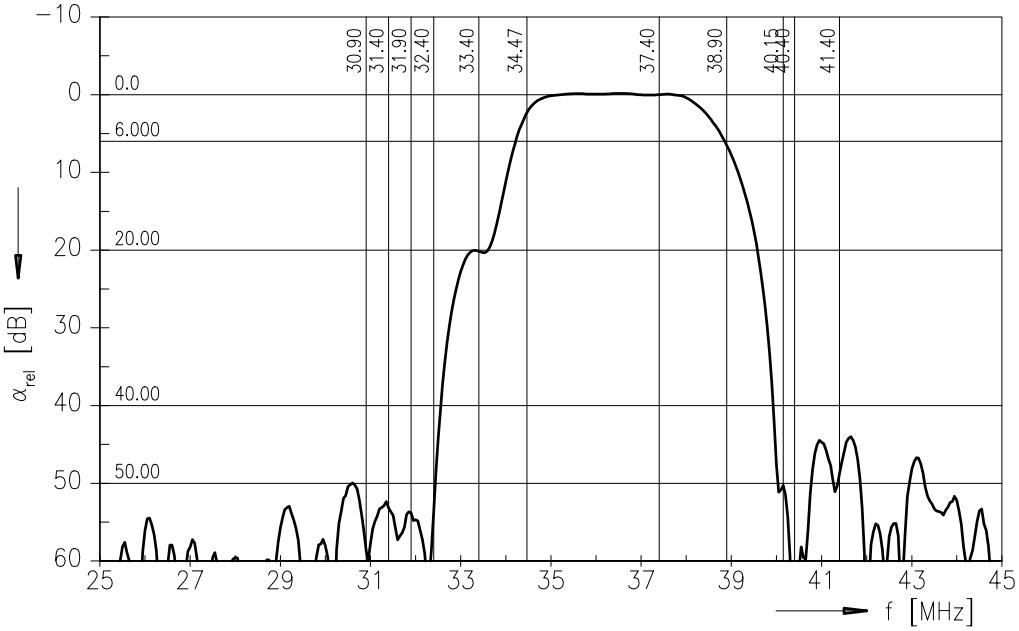
Data Sheet

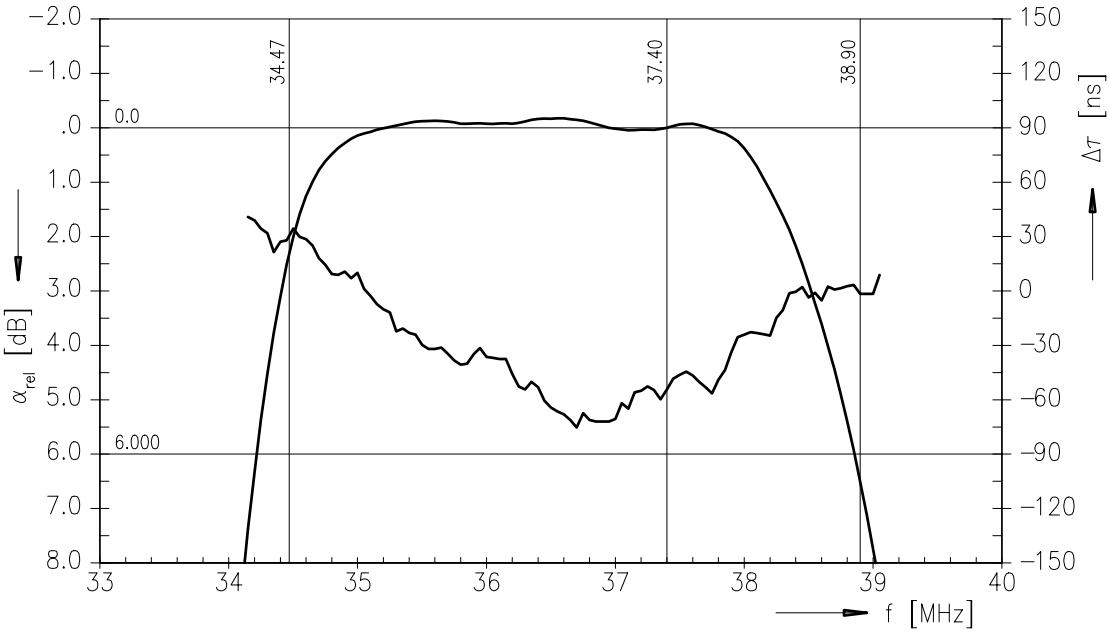
Characteristics

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

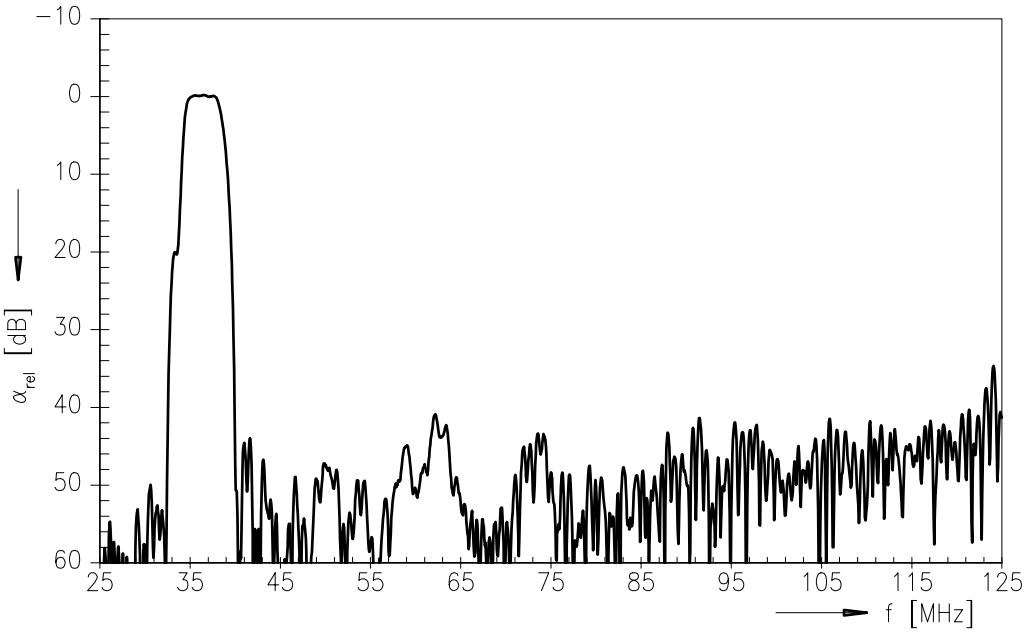
			min.	typ.	max.	
Insertion attenuation		α				
Reference level for the following data	37,40 MHz		13,6	15,1	16,6	dB
Relative attenuation		α_{rel}				
Picture carrier	38,90 MHz		4,9	5,9	6,9	dB
Color carrier	34,47 MHz		1,3	2,3	3,3	dB
Sound carrier	33,40 MHz		18,9	19,9	20,9	dB
Adjacent picture carrier UHF	30,90 MHz		46,0	52,0	—	dB
VHF	31,90 MHz		48,0	54,0	—	dB
	31,40 MHz		46,0	52,0	—	dB
	32,40 MHz		48,0	56,0	—	dB
	40,15 MHz		42,0	49,0	—	dB
Adjacent sound carrier VHF	40,40 MHz		46,0	58,0	—	dB
UHF	41,40 MHz		42,0	52,0	—	dB
Lower sidelobe	25,00 ... 31,40 MHz		42,0	47,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz		38,0	43,0	—	dB
Reflected wave signal suppression						
1,3 µs ... 6,0 µs after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)			44,0	54,0	—	dB
Feedthrough signal suppression						
1,3 µs ... 1,2 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)		$\Delta\tau$				
	36,90 MHz		—	–70	—	ns
	34,47 MHz		—	30	—	ns
Impedance at 37,40 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			—	2,2 ‖ 13,3	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			—	1,4 ‖ 4,7	—	kΩ || pF
Temperature coefficient of frequency		TC_f	—	–72	—	ppm/K

Frequency response

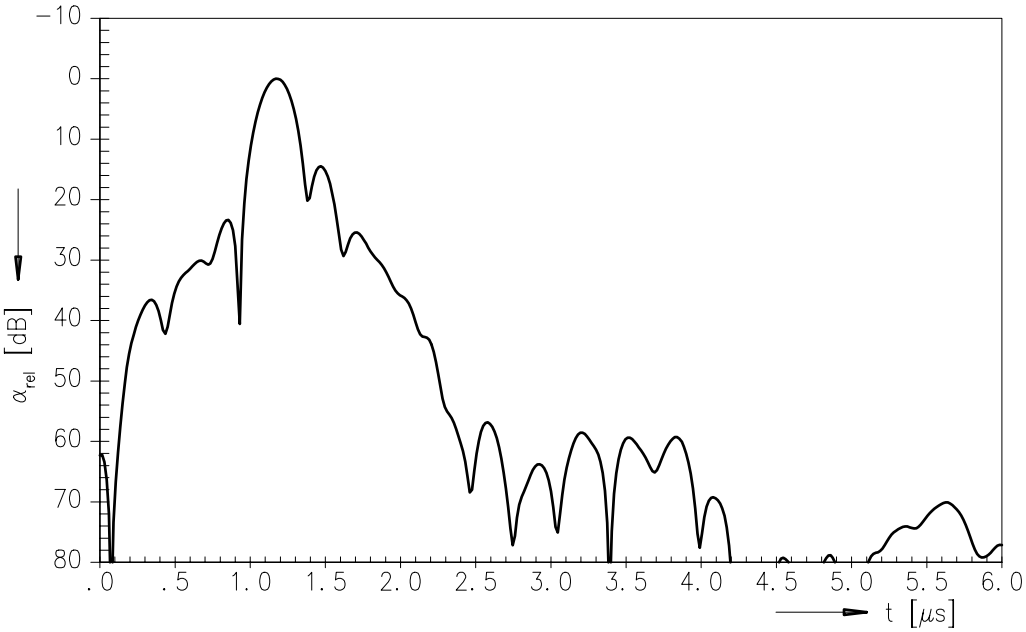




Frequency response



Time domain response



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