EPCOS

SAW Components

Data Sheet M 1967 M

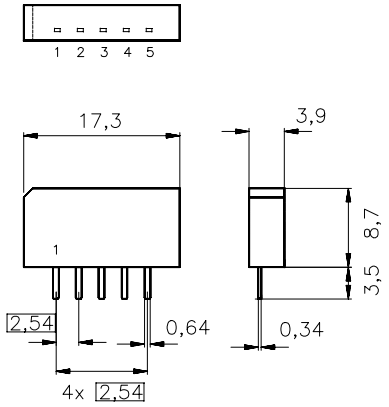


Data Sheet

Standard

Plastic package **SIP5K**

- M/N



Dimensions in mm, approx. weight 1,0 g

Features

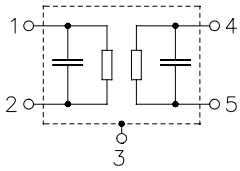
- TV IF filter with Nyquist slope and sound shelf
- High color carrier level
- Constant group delay

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
M 1967 M	B39458-M1967-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

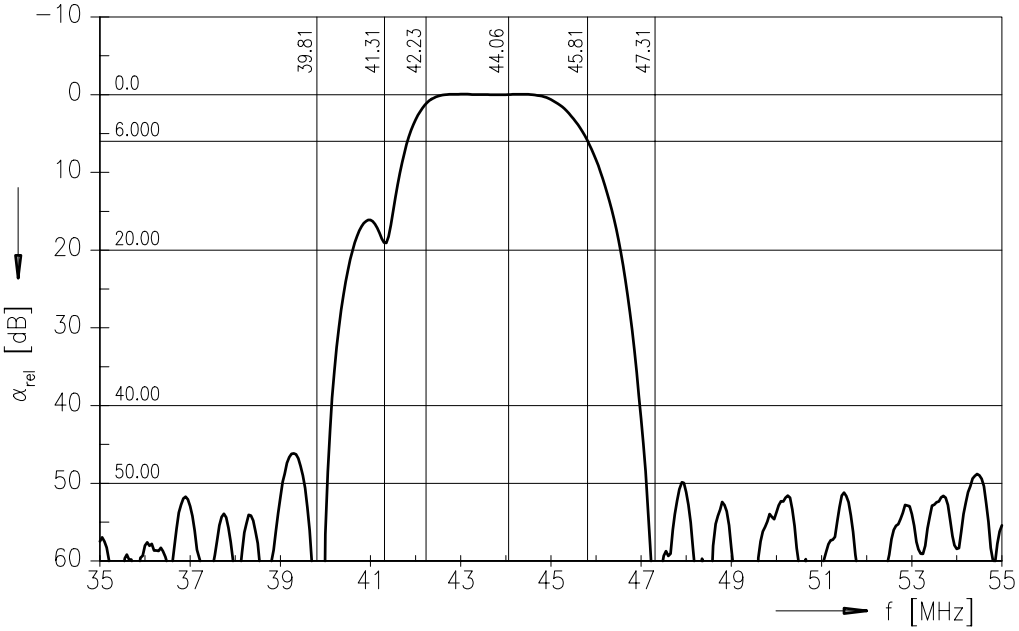
Data Sheet

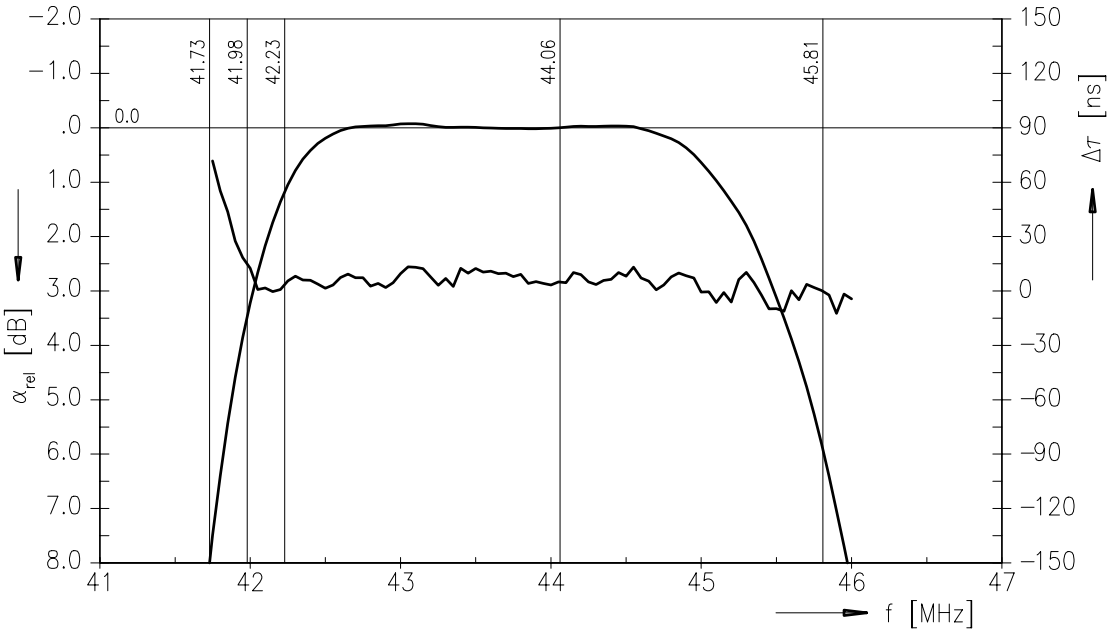
Characteristics

Reference temperature: T_A = 25 (45) ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 2 kΩ || 3 pF

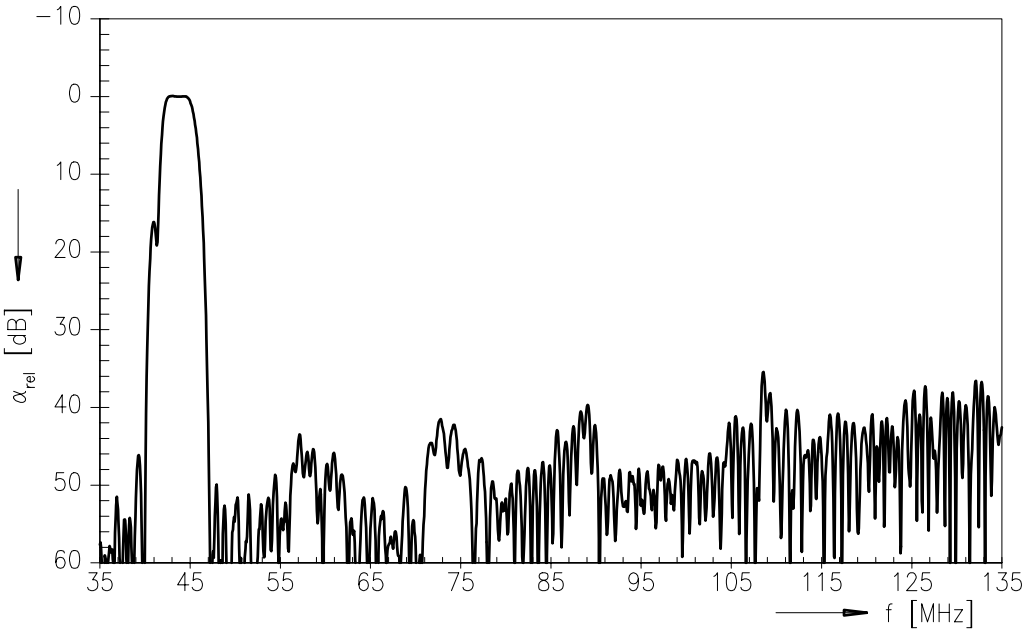
			min.	typ.	max.	
Insertion attenuation		α				
Reference level for the following data	44,06 (44,00) MHz		11,1	12,6	14,1	dB
Relative attenuation		α_{rel}				
Picture carrier	45,81 (45,75) MHz		5,0	6,0	7,0	dB
Color carrier	42,23 (42,17) MHz		0,0	1,0	2,0	dB
	41,98 (41,92) MHz		—	3,0	—	dB
	41,73 (41,67) MHz		—	7,4	—	dB
Sound carrier	41,31 (41,25) MHz		17,6	19,1	20,6	dB
Adjacent picture carrier	39,81 (39,75) MHz		50,0	62,0	—	dB
Adjacent sound carrier	47,31 (47,25) MHz		46,0	56,0	—	dB
Lower sidelobe						
35,06 ... 39,81	(35,00 ... 39,75) MHz		41,0	46,0	—	dB
Upper sidelobe						
47,31 ... 55,06	(47,25 ... 55,00) MHz		42,0	47,0	—	dB
Reflected wave signal suppression						
1,1 µs ... 6,0 µs after main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)			42,0	52,0	—	dB
Feedthrough signal suppression						
1,2 µs ... 1,1 µs before main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)			50,0	56,0	—	dB
Group delay ripple (p-p)		Δτ	—	40	—	ns
Impedance at 44,06 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			—	0,9 || 14,9	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			—	0,9 || 4,1	—	kΩ || pF
Temperature coefficient of frequency		TC_f	—	–72	—	ppm/K

Frequency response

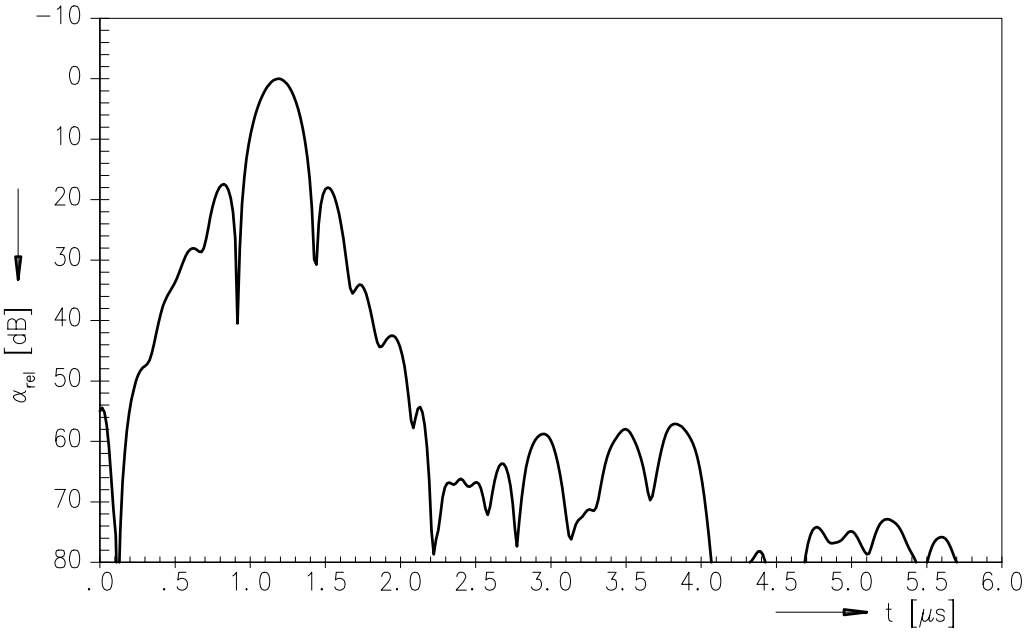




Frequency response



Time domain response



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