EPCOS

SAW Components

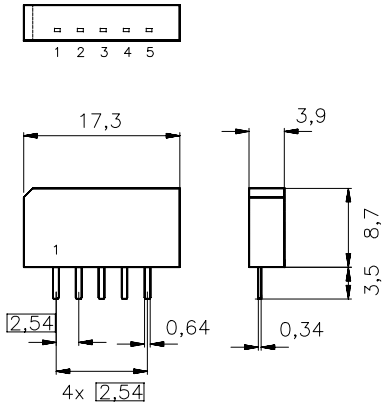
Data Sheet N 1951 M

Data Sheet

Standard

- M

Plastic package **SIP5K**



Dimensions in mm, approx. weight 1,0 g

Features

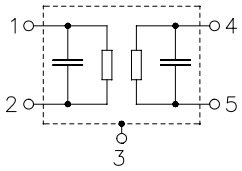
- TV IF filter with Nyquist slope and sound shelf
- Constant group delay

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
N 1951 M	B39588-N1951-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

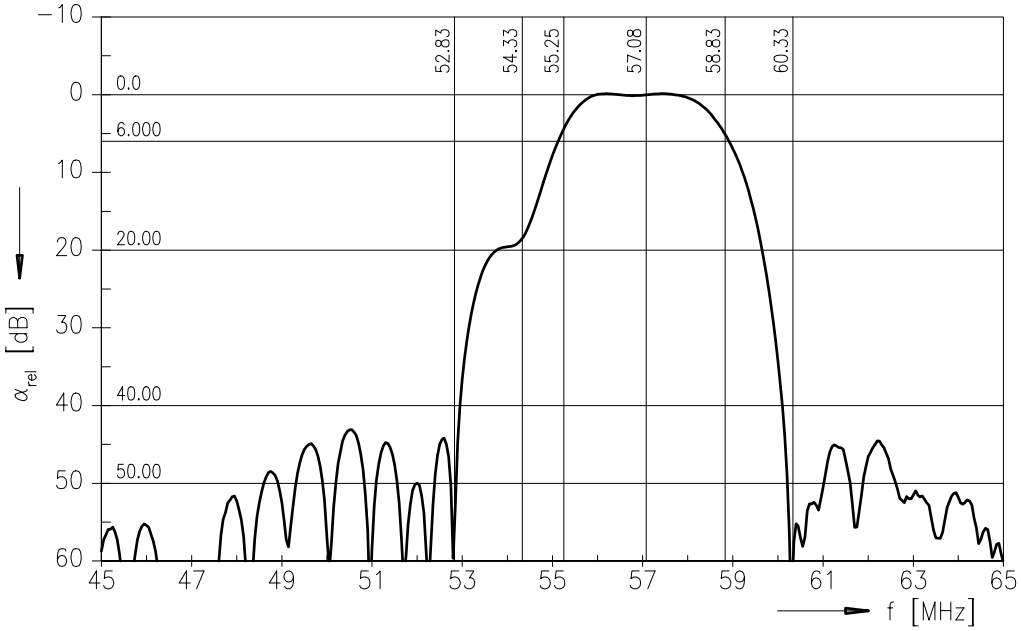
Data Sheet

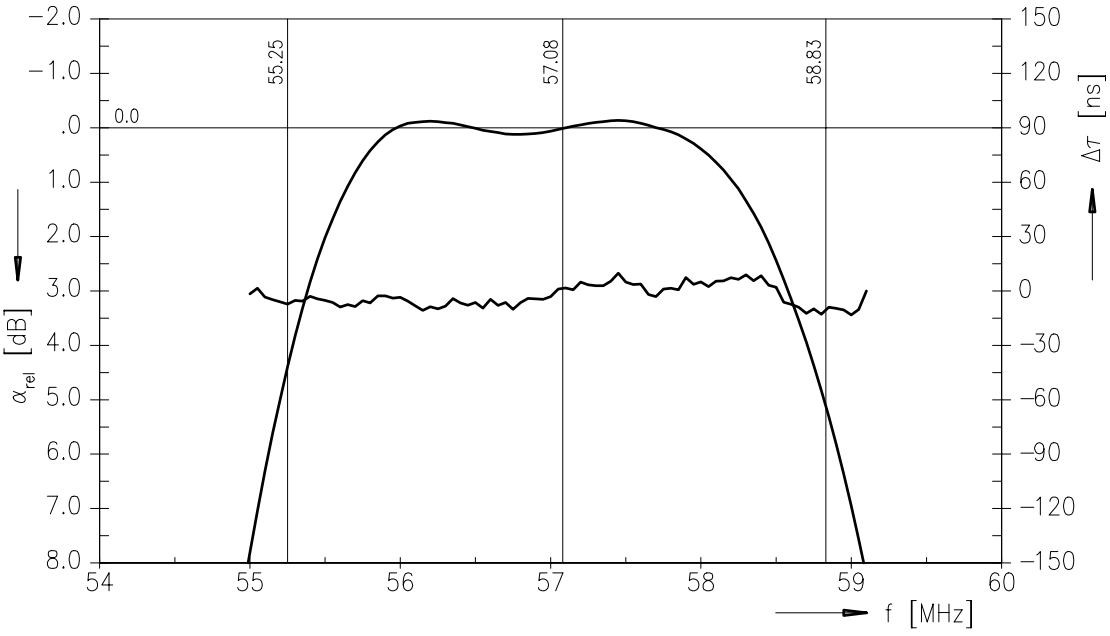
Characteristics

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

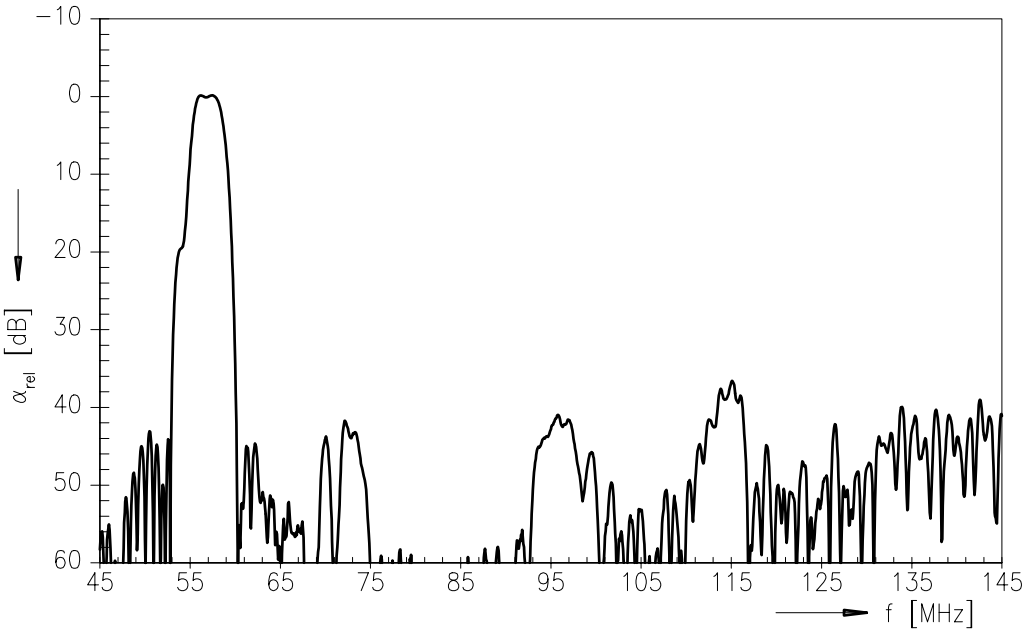
		min.	typ.	max.	
Insertion attenuation	α				
Reference level for the following data	57,08 (57,00) MHz	10,8	12,3	13,8	dB
Relative attenuation	α_{rel}				
Picture carrier	58,83 (58,75) MHz	4,1	5,1	6,1	dB
Color carrier	55,25 (55,17) MHz	3,3	4,3	5,3	dB
Sound carrier	54,33 (54,25) MHz	17,3	18,3	19,3	dB
Adjacent picture carrier	52,83 (52,75) MHz	42,0	52,0	—	dB
Adjacent sound carrier	60,33 (60,25) MHz	40,0	46,0	—	dB
Lower sidelobe					
45,08 ... 52,83	(45,00 ... 52,75) MHz	37,0	42,0	—	dB
Upper sidelobe					
60,33 ... 65,08	(60,25 ... 65,00) MHz	39,0	44,0	—	dB
Reflected wave signal suppression					
1,0 µs ... 6,0 µs after main pulse (test pulse 250 ns, carrier frequency 57,08 MHz)		40,0	48,0	—	dB
Feedthrough signal suppression					
1,0 µs ... 0,9 µs before main pulse (test pulse 250 ns, carrier frequency 57,08 MHz)		50,0	56,0	—	dB
Group delay ripple (p-p)	$\Delta\tau$	—	50	—	ns
Impedance at 57,08 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,0 || 7,7	—	kΩ || pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	0,9 || 2,9	—	kΩ || pF
Temperature coefficient of frequency	TC_f	—	–72	—	ppm/K

Frequency response

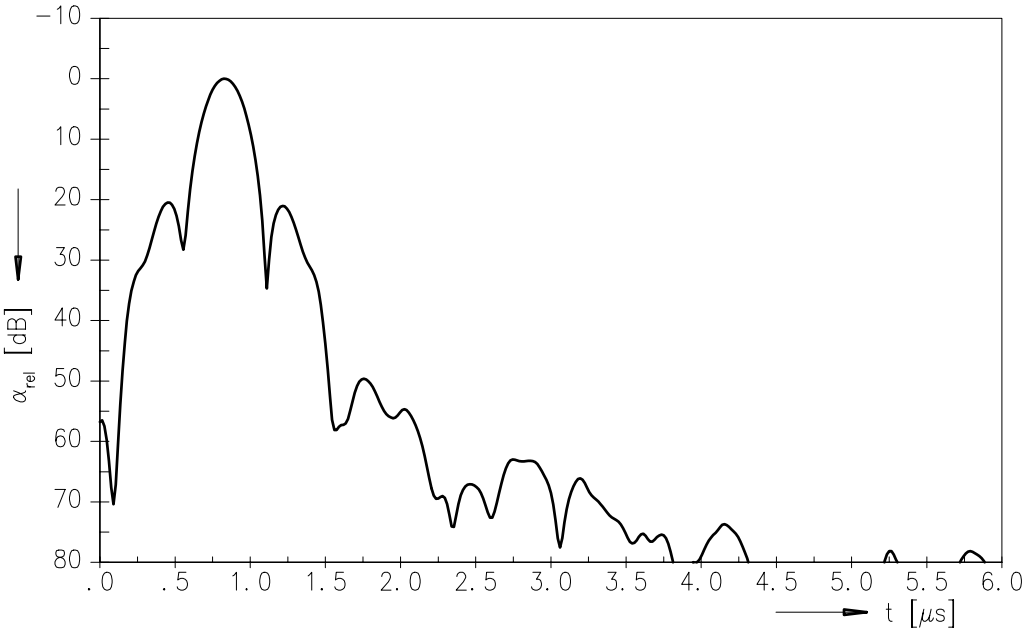




Frequency response



Time domain response



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