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SAW Components

Data Sheet M 3568 M

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The word "EPCOS" is written in a bold, sans-serif font, with the letters appearing to be made of a metallic or reflective material. The letters are arranged in a slightly curved, perspective view, giving them a three-dimensional appearance. The background is dark and textured, suggesting a circuit board or a similar technical surface.



SAW Components

M 3568 M

IF Filter for Quasi/Split Sound Applications

45,75 MHz

Data Sheet

Standard

Plastic package **SIP5K**

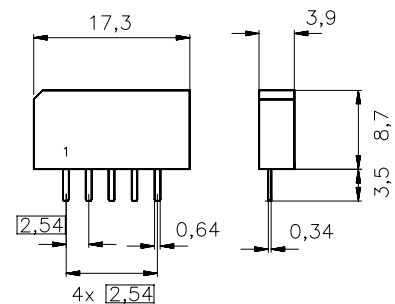
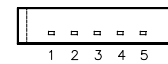
- M/N

Features

- TV IF filter for quasi/split sound applications (separate picture and sound channel)
- Picture channel with Nyquist slope and sound suppression, symmetrical output
- Customized group delay predistortion
- Sound channel with passband for sound carrier only

Terminals

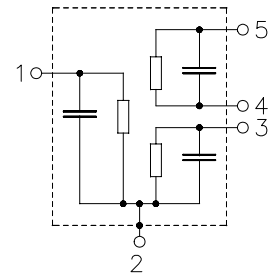
- Tinned CuFe alloy



Dimensions in mm, approx. weight 1,0 g

Pin configuration

- 1 Input
- 2 Chip carrier - ground
- 3 Output - sound
- 4 Output - picture
- 5 Output - picture



Type	Ordering code	Marking and package according to	Packing according to
M 3568 M	B39458-M3568-M201	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


SAW Components
M 3568 M
IF Filter for Quasi/Split Sound Applications
45,75 MHz
Data Sheet
Characteristics of picture channel

Reference temperature: $T_A = 25 (45) \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

		min.	typ.	max.	
Insertion attenuation					
	α				
Reference level for the following data	44,06 (44,00) MHz	12,3	13,8	15,3	dB
Relative attenuation					
	α_{rel}				
Picture carrier	45,81 (45,75) MHz	4,9	5,9	6,9	dB
Color carrier	42,23 (42,17) MHz	1,4	2,4	3,4	dB
Sound carrier	41,31 (41,25) MHz	34,0	43,0	—	dB
Adjacent picture carrier	39,81 (39,75) MHz	50,0	65,0	—	dB
Adjacent sound carrier	47,31 (47,25) MHz	42,0	52,0	—	dB
Lower sidelobe					
	35,06 ... 39,81 (35,00 ... 39,75) MHz	41,0	45,0	—	dB
Upper sidelobe					
	47,31 ... 55,06 (47,25 ... 55,00) MHz	36,0	42,0	—	dB
Reflected wave signal suppression					
1,2 μs ... 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)		42,0	52,0	—	dB
Feedthrough signal suppression					
1,3 μs ... 1,2 μs before main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)		50,0	56,0	—	dB
Group delay predistortion					
(reference frequency 45,75 MHz)					
	42,23 (42,17) MHz	—	50	—	ns
Group delay ripple (p-p)					
	43,06 ... 45,81 (43,00 ... 45,75) MHz	—	40	—	ns
Impedance at 44,06 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,1 \parallel 19,1	—	k Ω \parallel pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	1,6 \parallel 3,1	—	k Ω \parallel pF
Temperature coefficient of frequency					
	TC_f	—	-72	—	ppm/K



SAW Components

M 3568 M

IF Filter for Quasi/Split Sound Applications

45,75 MHz

Data Sheet

Characteristics of sound channel

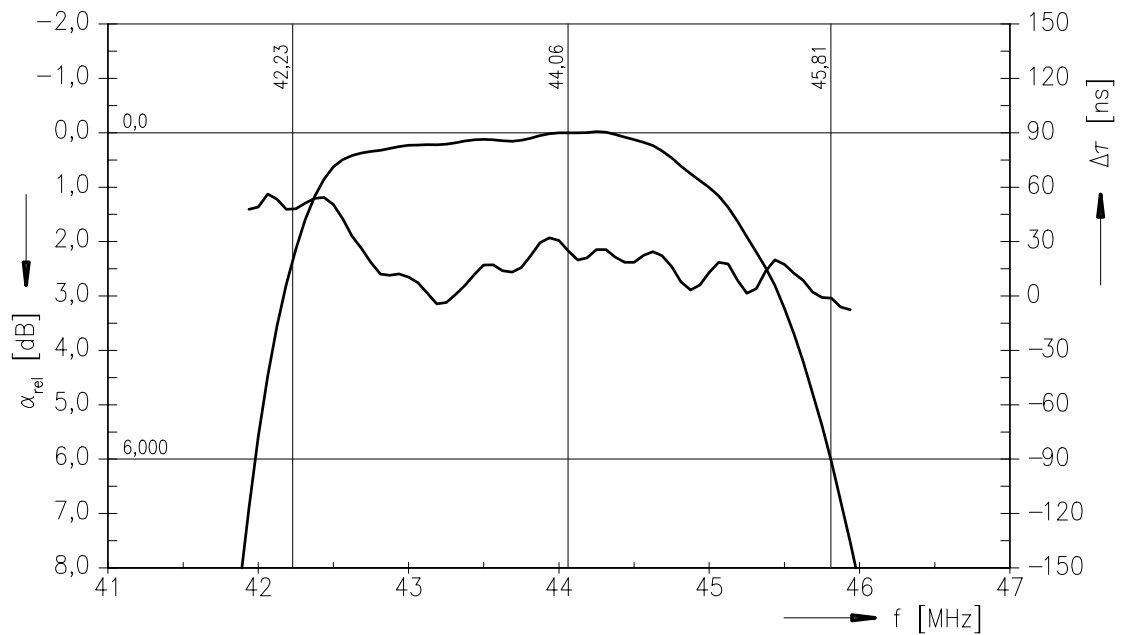
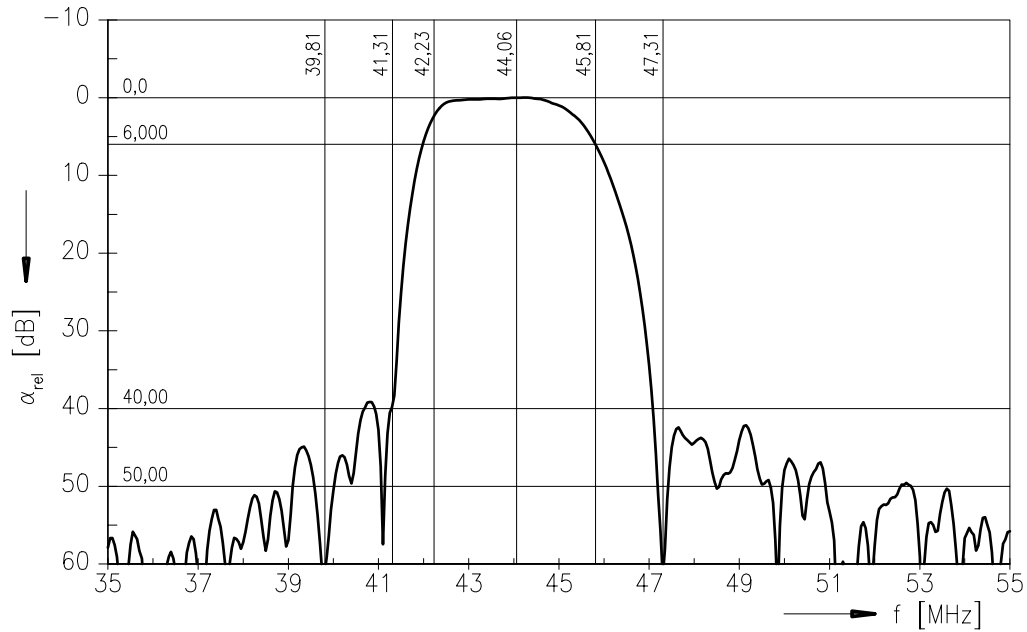
Reference temperature: $T_A = 25 (45) \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

		min.	typ.	max.	
Insertion attenuation	α				
Reference level for the following data	41,31 (41,25) MHz	10,2	11,7	13,2	dB
Relative attenuation	α_{rel}				
Picture carrier	45,81 (45,75) MHz	38,0	50,0	—	dB
Color carrier	42,23 (42,17) MHz	13,0	16,0	—	dB
Adjacent picture carrier	39,81 (39,75) MHz	32,0	37,0	—	dB
Adjacent sound carrier	47,31 (47,25) MHz	40,0	50,0	—	dB
Lower sidelobe					
	35,06 ... 39,81 (35,00 ... 39,75) MHz	32,0	40,0	—	dB
Upper sidelobe					
	47,31 ... 55,06 (47,25 ... 55,00) MHz	38,0	42,0	—	dB
Impedance at 41,31 MHz					
	Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$	—	3,3 \parallel 2,6	—	k Ω \parallel pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K



Data Sheet

Frequency response of picture channel





SAW Components

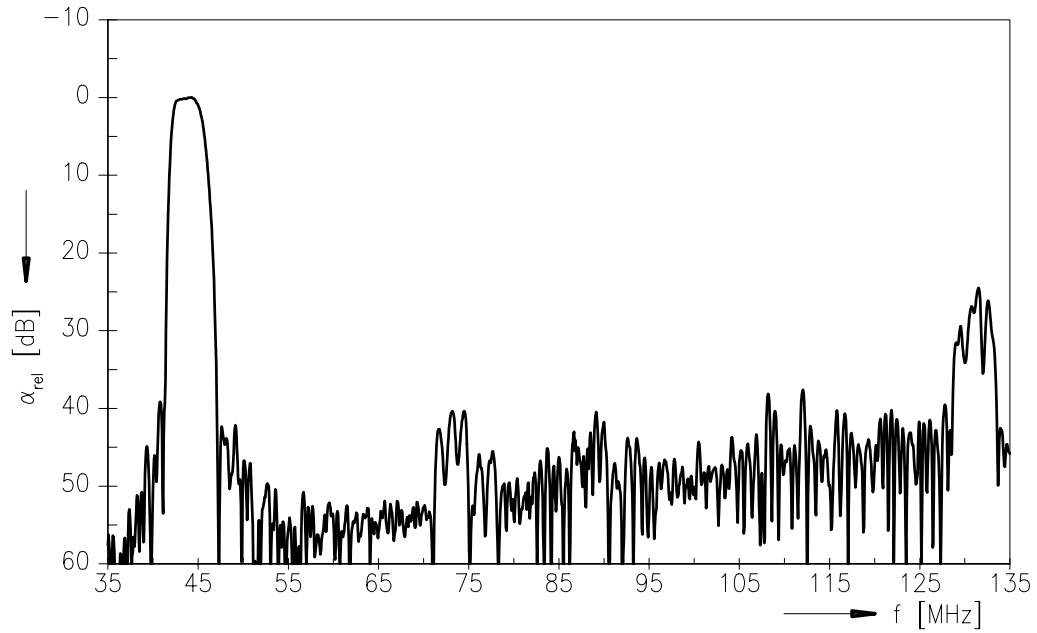
M 3568 M

IF Filter for Quasi/Split Sound Applications

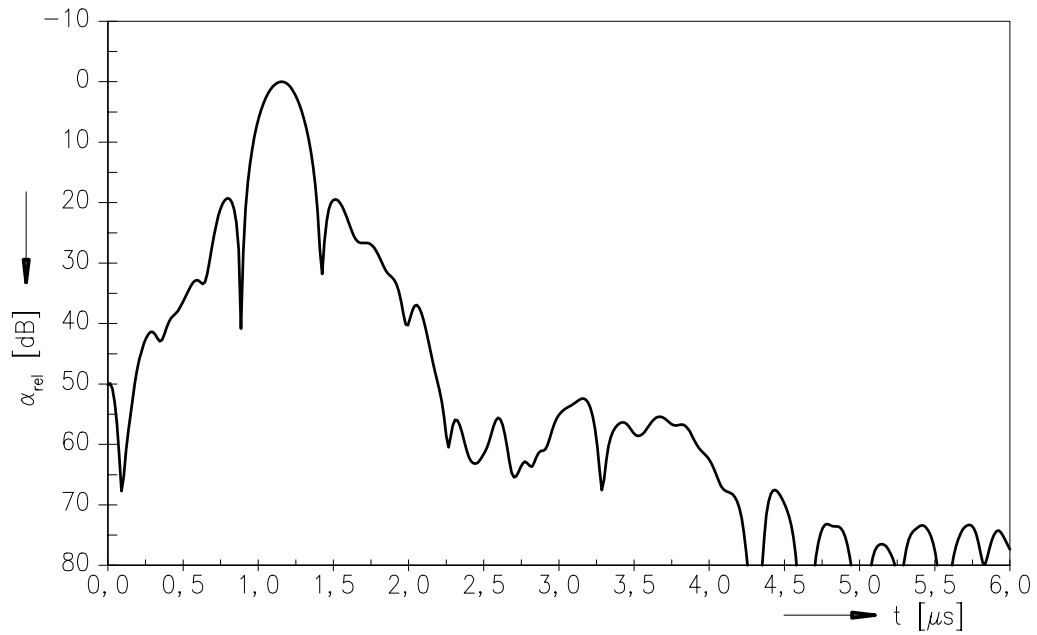
45,75 MHz

Data Sheet

Frequency response of picture channel



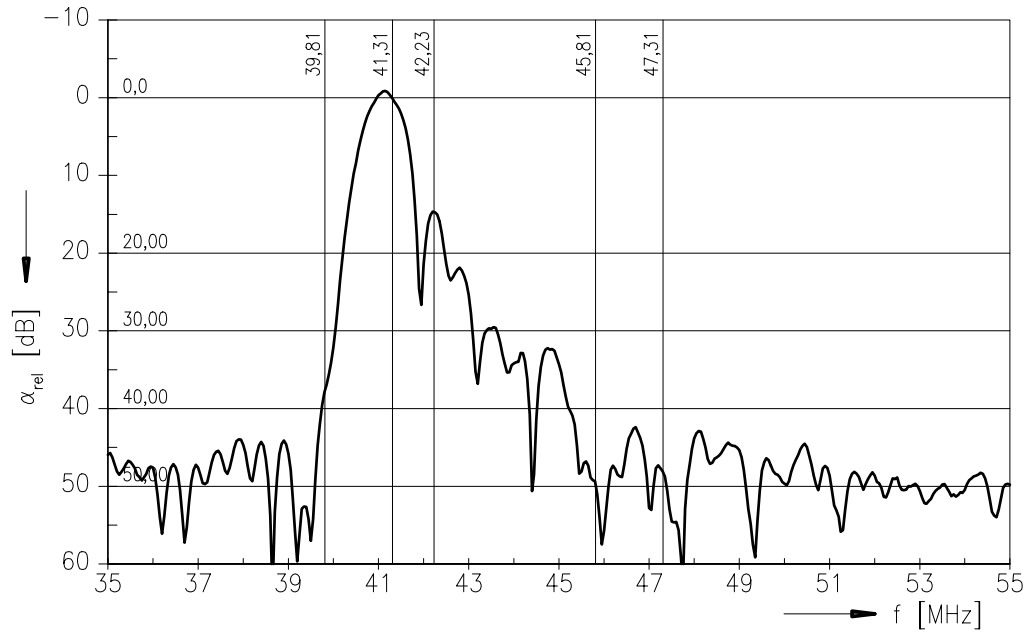
Time domain response of picture channel





Data Sheet

Frequency response of sound channel





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45,75 MHz

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