

SAW Components

Data Sheet M 3568 M





SAW ComponentsM 3568 MIF Filter for Quasi/Split Sound Applications45,75 MHz

Data Sheet

Standard

M/N

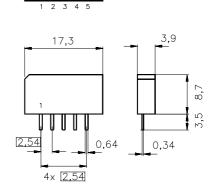
Features

- 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

Plastic package SIP5K

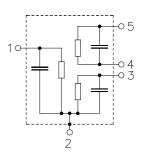


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Dimensions in mm, approx. weight 1,0 g

Pin configuration

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



Туре	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	$V_{\rm pp}$	10	V	between any terminals



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Characteristics of picture channel					
Terminating source impedance: Z _S	= 25 (4 = 50 Ω = 2 kΩ				
		min.	typ.	max.	
Insertion attenuation	α				
Reference level for the44,06 (44,00) MHzfollowing data		12,3	13,8	15,3	dB
Relative attenuation	α_{rel}				
Picture carrier 45,81 (45,75) MHz	101	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 carrier39,81 (39,75) MHz		50,0	65,0	—	dB
Adjacent sound carrier 47,31 (47,25) MHz		42,0	52,0	—	dB
Lower sidelobe			15.0		
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		42,0	52,0	_	dB
(test pulse 250 ns,		,	,		
carrier frequency 44,06 MHz)					
Feedthrough signal suppression					
1,3 μs 1,2 μs before main pulse		50,0	56,0	_	dB
(test pulse 250 ns,					
carrier frequency 44,06 MHz)					
Group delay predistortion	Δτ				
(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	$\Delta \tau$	_	40	_	ns
mpedance at 44,06 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			1,1 19,1	—	kΩ pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			1,6 3,1	_	kΩ pF
	TC _f		-72		ppm/K
Temperature coefficient of frequency	, Of		12		PPINK

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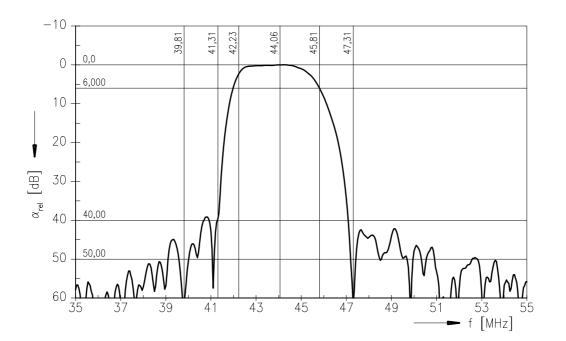


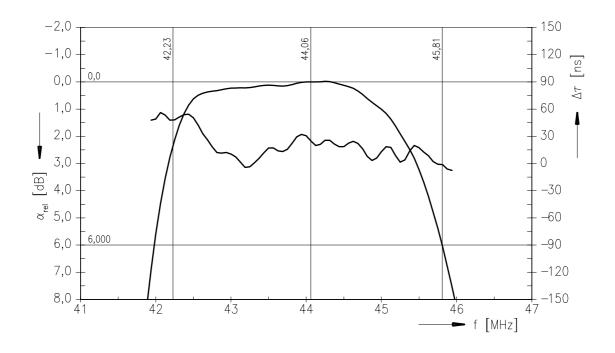
SAW Components			M 3568 M			
IF Filter for Quasi/Split Sound Applications				45,75 MHz		
Data Sheet						
Characteristics of sound	channel					
Reference temperature: $T_A = 25 (45) \degree C$ Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 2 k\Omega \parallel 3 pF$						
			min.	typ.	max.	
Insertion attenuation		α				
Reference level for the	41,31 (41,25)	MHz	10,2	11,7	13,2	dB
following data						
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	(47,2555,00)	MHz	38,0	42,0	—	dB
Impedance at 41,31 MHz						
Output: Z	$OUT = R_{OUT} \parallel C_O$	UT	-	3,3 2,6	_	kΩ pF
Temperature coefficient	of frequency	TC _f		-72	—	ppm/K



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Frequency response of picture channel



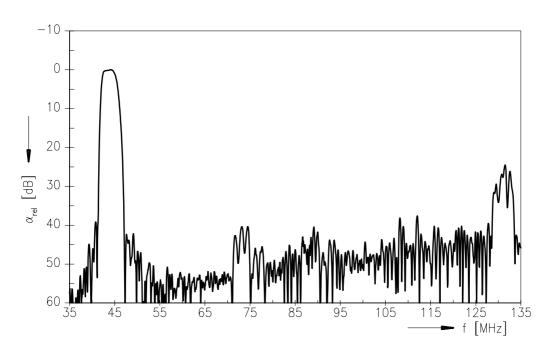


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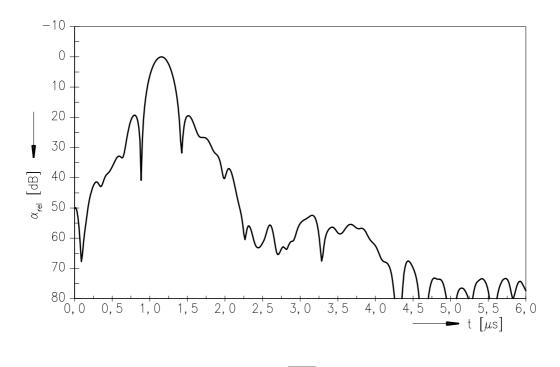


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Frequency response of picture channel



Time domain response of picture channel

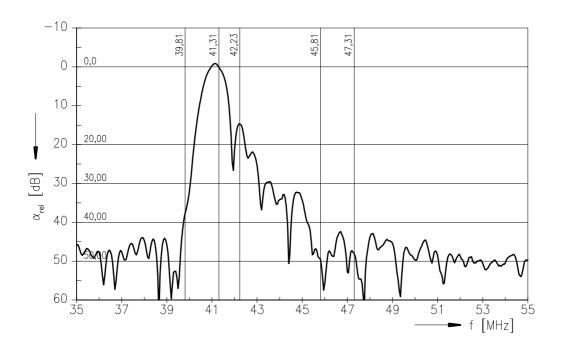


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Frequency response of sound channel





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