

SAW Components

Data Sheet M 3568 M



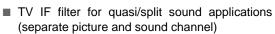


SAW Components	M 3568 M
IF Filter for Quasi/Split Sound Applications	45,75 MHz

Standard

M/N

Features



- 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

0,64

. 2 3 4 5

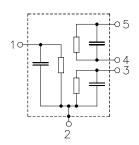
17,3

4x 2,54

2.54

Pin configuration

- 1 Input 2
- 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

Plastic package SIP5K

3,9

0,34

8,7

3,5



SAW Components M 3568 M					
IF Filter for Quasi/Split Sound Applications 45,75 MHz				75 MHz	
Data Sheet					
Characteristics of picture channel					
Reference temperature:	$T_{\rm A} = 25 \ (4$	5) °C			
Terminating source impedance:	$Z_{\rm S}$ = 50 Ω				
Terminating load impedance:	$Z_{\rm L} = 2 \rm k\Omega$	3 pF			
		min.	typ.	max.	
Insertion attenuation	α		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Reference level for the 44,06 (44,00) MHz	12,3	13,8	15,3	dB
following data	,				
Relative attenuation	α_{rel}	4.0	5.0		
Picture carrier 45,81 (45,75 Calar corrier 42,22 (42,17)	,	4,9	5,9	6,9	dB
Color carrier 42,23 (42,17 Sound contrion 44,24 (44,25)	,	1,4	2,4	3,4	dB
Sound carrier41,31 (41,25Adjacent picture carrier39,81 (39,75		34,0	43,0		dB
	,	50,0	65,0		dB dB
Adjacent sound carrier 47,31 (47,25 Lower sidelobe		42,0	52,0		uБ
35,06 39,81 (35,00 39,75)) MH7	41,0	45,0		dB
Upper sidelobe) 1011 12	41,0	45,0	_	uВ
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,		00,0	00,0		
carrier frequency 44,06 MHz)					
Group delay predistortion	$\Delta \tau$				
(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 Δτ	_	40	—	ns
Impedance at 44,06 MHz					
Input: $Z_{IN} = R_{IN} \parallel C$		_	1,1 19,1		kΩ pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C$		_	1,6 3,1		kΩ pF
Temperature coefficient of frequency	TC _f		-72		ppm/K

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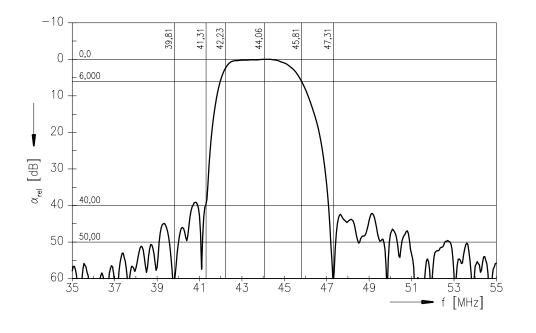
SAW Components				M	3568 M
IF Filter for Quasi/Split Sound Applications			45,75 MHz		
Data Sheet					
Characteristics of sound channel					
Reference temperature: $T_A = 25 (45) \degree C$ Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 2 k\Omega \parallel 3 pF$					
		min.	typ.	max.	
Insertion attenuation	χ				
Reference level for the 41,31 (41,25) MHz		10,2	11,7	13,2	dB
following data					
Relative attenuation 0	x _{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 Lower sidelobe		40,0	50,0	—	dB
35,06 39,81 (35,00 39,75) MHz		32,0	40,0	_	dB
Upper sidelobe		52,0	-0,0		
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 2,6	—	kΩ pF
Temperature coefficient of frequency	TC _f		-72	—	ppm/K

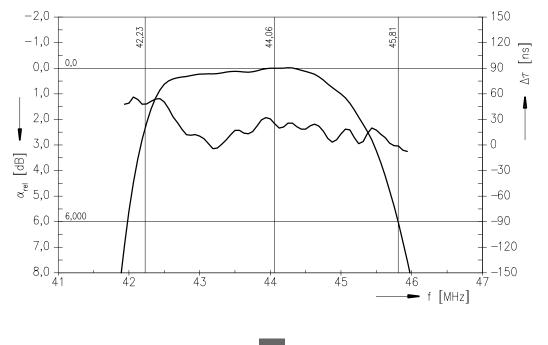
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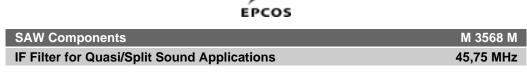
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IF Filter for Quasi/Split Sound Applications	45,75 MHz

Frequency response of picture channel

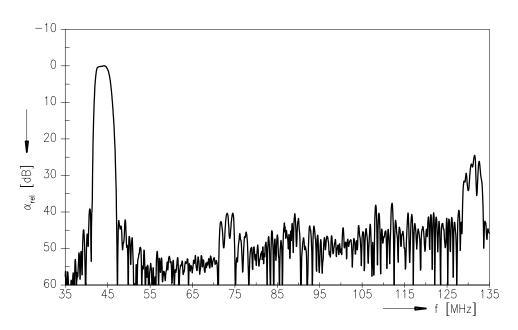




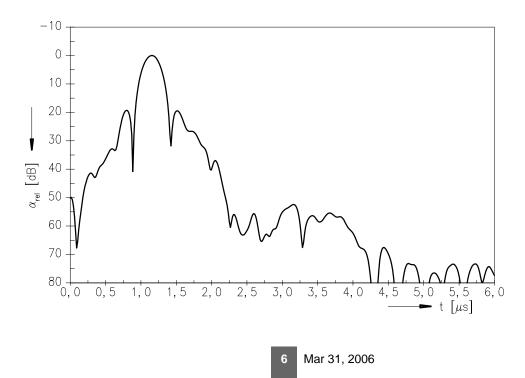
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Frequency response of picture channel



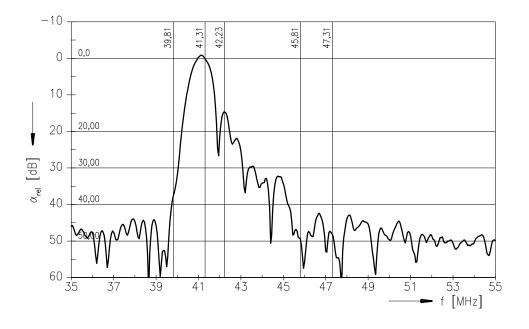
Time domain response of picture channel





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Frequency response of sound channel



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Data Sheet	

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