

SAW multimedia filters

Series/Type: M1971M

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39458M1971M100		2011-01-14	2011-09-30	2012-09-30

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.



SAW Components	M 1971 M
IF Filter for Intercarrier Applications	45,75 MHz

Standard

M/N

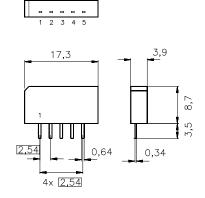
Features

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

Terminals

Tinned CuFe alloy

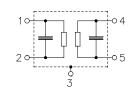
Plastic package SIP5K



Dimensions in mm, approx. weight 1,0 g

Pin configuration

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



Туре	Ordering code	Marking and package according to	Packing according to
M 1971 M	B39458-M1971-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}	5	V	between any terminals
AC voltage	$V_{\rm pp}$	10	V	between any terminals

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SAW Components M 1971 M					1971 M	
IF Filter for Intercarrier Applications					45,7	75 MHz
Data Sheet						
Characteristics						
Reference temperature: Terminating source impeda Terminating load impedan	ance: Z	$A_{A} = 25 (4)$ $B_{S} = 50 \Omega_{L}$ $= 2 k\Omega_{L}$	2			
			min.	typ.	max.	
Insertion attenuation		α				
Reference level for the	44,06 (44,00) MH	lz	10,8	12,3	13,8	dB
following data						
Relative attenuation		α_{rel}				
Picture carrier	45,81 (45,75) MH		5,3	6,0	6,7	dB
Color carrier	42,23 (42,17) MH	lz	1,0	2,0	3,0	dB
Sound carrier	41,31 (41,25) MH	lz	15,6	17,1	18,6	dB
Adjacent picture carrier	39,81 (39,75) MH	lz	46,5	60,0	_	dB
Adjacent sound carrier	47,31 (47,25) MH	lz	46,5	55,0	_	dB
Lower sidelobe						
35,06 39,81	(35,00 39,75) MH	lz	36,5	41,0	—	dB
Upper sidelobe						
47,31 55,06	(47,25 55,00) MH	lz	38,5	44,0	—	dB
Reflected wave signal su	ppression					
1,1 μs 6,0 μs after main	pulse		42,0	52,0	—	dB
(test pulse 250 ns,						
carrier frequency 44,06 MH	Hz)					
Feedthrough signal supp	pression					
1,0 μs 0,9 μs before ma			50,0	56,0	—	dB
(test pulse 250 ns,						
carrier frequency 44,06 MI	Hz)					
Group delay ripple (p-p)		$\Delta \tau$	_	40	—	ns
Impedance at 44,06 MHz						
Input: Z	$Z_{\rm IN} = R_{\rm IN} C_{\rm IN}$			1,5 10,6	—	kΩ pl
Output: Z	$C_{OUT} = R_{OUT} \parallel C_{OUT}$		_	1,0 3,6	_	kΩ p

_

-72

ppm/K

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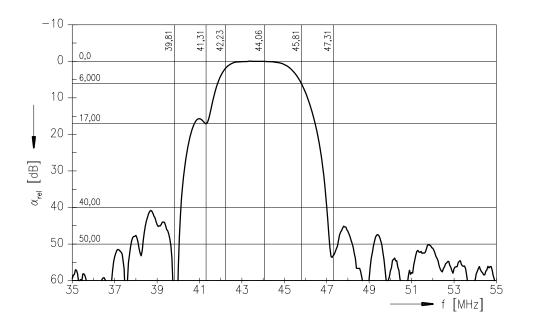
 $TC_{\rm f}$

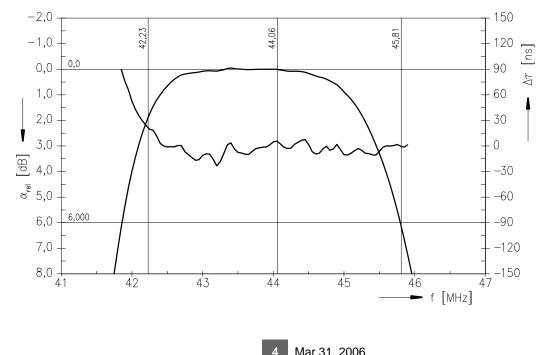
Temperature coefficient of frequency



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Frequency response



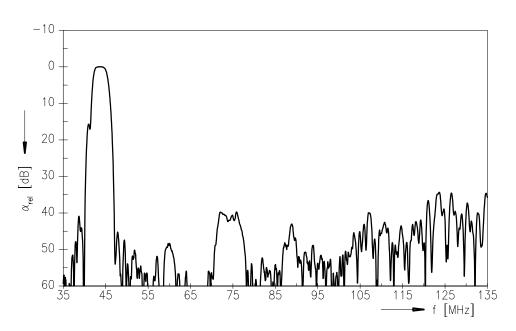


Mar 31, 2006

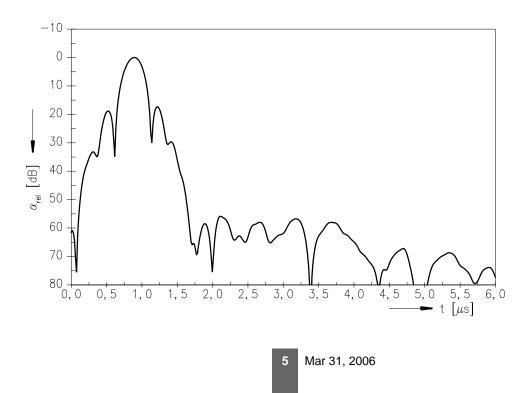


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Frequency response



Time domain response





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Published by EPCOS AG Surface Acoustic Wave Components Division, SAW CE MM PD P.O. Box 80 17 09, D-81617 München

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Mar 31, 2006