

Data Sheet M 1971 M





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

Data Sheet

Standard

■ M/N

Features

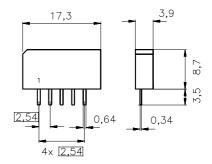
- TV IF filter with Nyquist slope and sound shelf
- Constant group delay

Terminals

■ Tinned CuFe alloy

Plastic package SIP5K

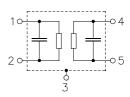




Dimensions in mm, approx. weight 1,0 g

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	$T_{ m stg}$	-40/+85	°C	
DC voltage	V_{DC}	5	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



M 1971 M

IF Filter for Intercarrier Applications

45,75 MHz

Data Sheet

Characteristics

Reference temperature: $T_{\rm A}=25~(45)~^{\circ}{\rm C}$ Terminating source impedance: $Z_{\rm S}=50~\Omega$ Terminating load impedance: $Z_{\rm L}=2~{\rm k}\Omega~||~3~{\rm pF}$

			min.	typ.	max.	
Insertion attenuation						
Reference level for the 44,06 (44,00) MHz			10,8	12,3	13,8	dB
following data						
Relative attenuation		$lpha_{rel}$				
Picture carrier	45,81 (45,75) MHz		5,3	6,0	6,7	dB
Color carrier	42,23 (42,17) MHz		1,0	2,0	3,0	dB
Sound carrier	41,31 (41,25) MHz		15,6	17,1	18,6	dB
Adjacent picture carrier	39,81 (39,75) MHz		46,5	60,0	_	dB
Adjacent sound carrier	47,31 (47,25) MHz		46,5	55,0	_	dB
Lower sidelobe						
35,06 39,81	(35,00 39,75) MHz		36,5	41,0	_	dB
Upper sidelobe						
47,31 55,06	47,31 55,06 (47,25 55,00) MHz		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 MHz)						
Feedthrough signal suppression						
1,0 μs 0,9 μs before mai	n pulse		50,0	56,0	_	dB
(test pulse 250 ns,						
carrier frequency 44,06 MH						
Group delay ripple (p-p)			_	40	_	ns
Impedance at 44,06 MHz						
•	$= R_{\rm IN} C_{\rm IN}$		_	1,5 10,6	_	kΩ pF
	$_{\text{OUT}} = R_{\text{OUT}} C_{\text{OUT}}$		_	1,0 3,6	_	kΩ pF
Temperature coefficient of frequency				-72	_	ppm/K



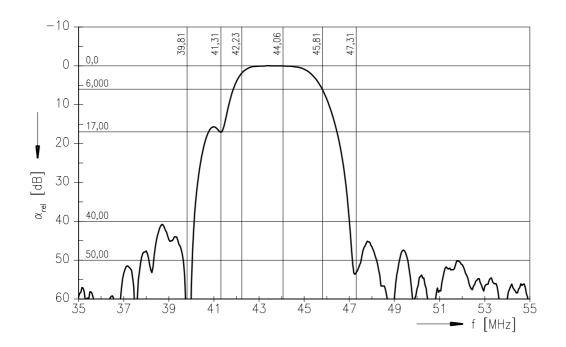
M 1971 M

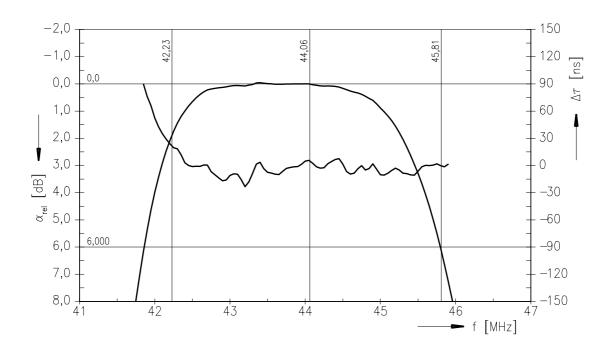
IF Filter for Intercarrier Applications

45,75 MHz

Data Sheet

Frequency response







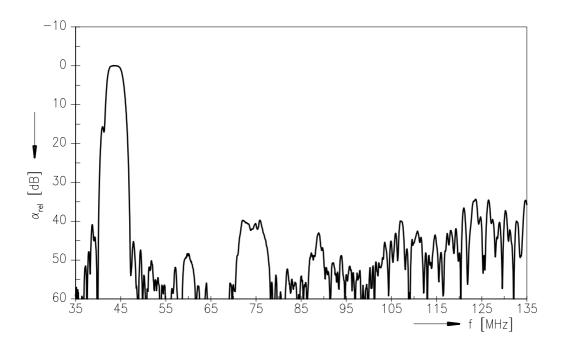
M 1971 M

IF Filter for Intercarrier Applications

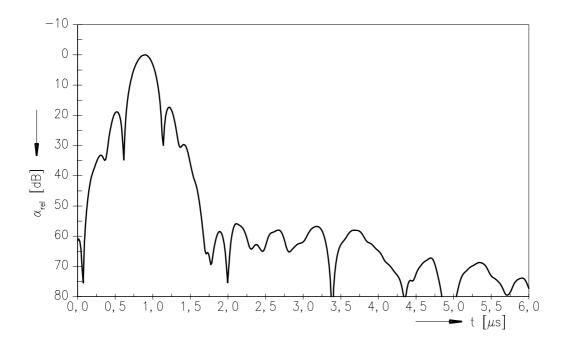
45,75 MHz

Data Sheet

Frequency response



Time domain response





M 1971 M 45,75 MHz

Data Sheet

IF Filter for Intercarrier Applications

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

© EPCOS AG 2001. All Rights Reserved.

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.

Terms of delivery and rights to change design reserved.

For questions on technology, prices and delivery please contact the sales offices of EPCOS AG or the international representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our sales offices.