

Data Sheet M 1871 M





SAW Components M 1871 M IF Filter for Intercarrier Applications 45,75 MHz

Data Sheet

Standard

■ M/N

Features

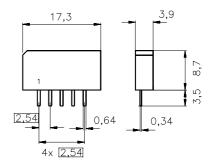
- IF Filter with Nyquist slope and sound shelf
- Constant group delay

Terminals

■ Tinned CuFe alloy

Plastic package SIP5K

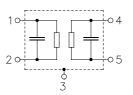




Dimensions in mm, approx. weight 1,0 g

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 1871 M	B39458-M1871-M100	C61157-A1-A15	F61074-V8067-Z000		

Maximum ratings

Operable temperature range	T_{A}	-25/+65	°C	
Storage temperature range	$T_{\rm stg}$	-40/+85	°C	
DC voltage	V_{DC}	5	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



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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		α				
Reference level for the	44,06 (44,00) MHz		11,2	12,7	14,2	dB
following data						
Deletive ettemostien						
Relative attenuation	4E 04 (4E 7E) MII-	α_{rel}	F 0	6.0	7.0	٩D
Picture carrier	45,81 (45,75) MHz		5,0	6,0	7,0	dB
Color carrier	42,23 (42,17) MHz		3,3	4,3	5,3	dB
Sound carrier	41,31 (41,25) MHz		15,6	17,1	18,6	dB
Adjacent picture carrier	39,81 (39,75) MHz		48,0	62,0	_	dB
Adjacent sound carrier	47,31 (47,25) MHz		40,0	47,0	_	dB
Lower sidelobe	(05.00 00.75) MIL		00.0	40.0		dB
35,06 39,81		36,0	42,0	_	dB	
Upper sidelobe			05.0	44.0		dB
47,31 55,06	(47,25 55,00) MHz		35,0	41,0	_	dB
Reflected wave signal su	nnression					
1,0 μs 6,0 μs after main	•		42,0	52,0		dB
· · · · · · · · · · · · · · · · · · ·	puise		42,0	32,0	_	UD
(test pulse 250 ns,						
carrier frequency 44,06 MH	12)					
Feedthrough signal supp						
0,9 μs 0,8 μs before mai		50,0	56,0	_	dB	
(test pulse 250 ns,			,	,		
carrier frequency 44,06 MH	lz)					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,					
Group delay ripple (p-p)			_	50	_	ns
Impedance at 44,06 MHz						
Input: Z	$_{\rm N}$ = $R_{\rm IN}$ $C_{\rm IN}$		_	1,6 8,4	_	$k\Omega \parallel pF$
Output: Z	$_{OUT} = R_{OUT} C_{OUT}$		_	1,1 3,6	_	k $\Omega \parallel$ pF
Temperature coefficient of frequency			_	-72	_	ppm/K



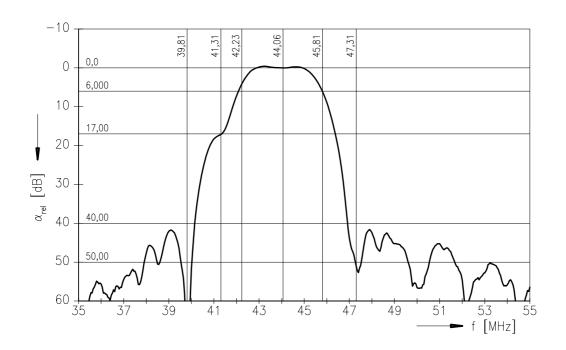
M 1871 M

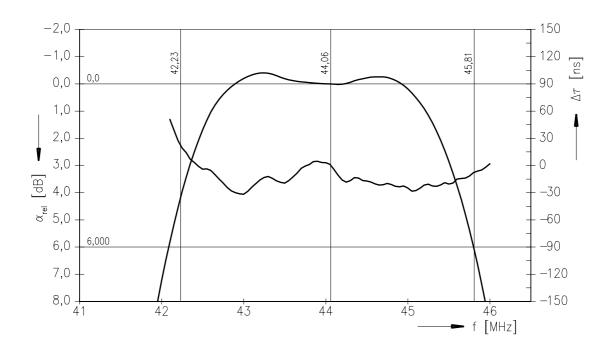
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Frequency response







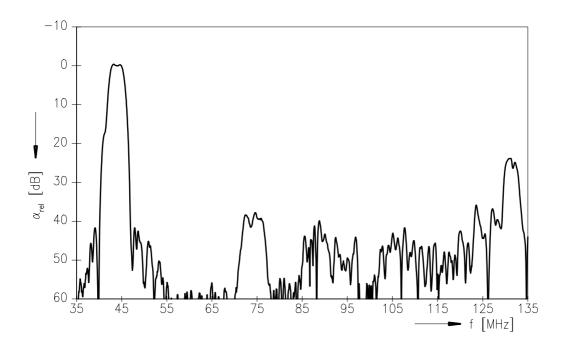
M 1871 M

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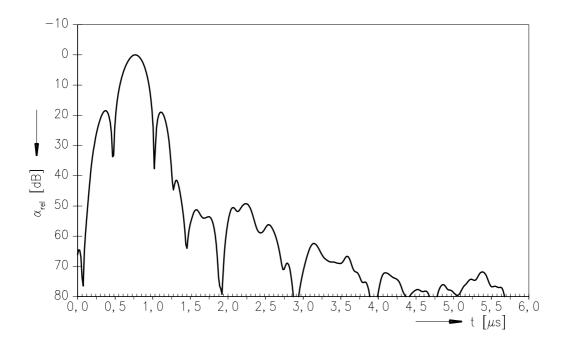
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Data Sheet

Frequency response



Time domain response





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