



SAW multimedia filters

Series/Type: M1867D

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39458M1867N201		2011-01-14	2011-09-30	2012-09-30

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SAW Components

M 1867 D

IF Filter for Intercarrier Applications

45,75 MHz

Data Sheet

Standard

Duroplast package **SIP5D**

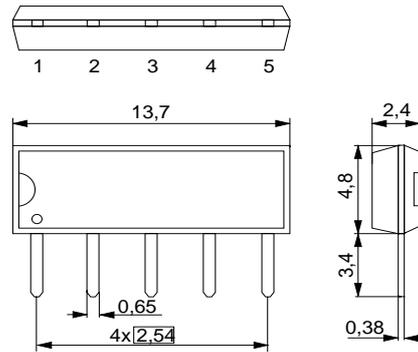
- M/N

Features

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

Terminals

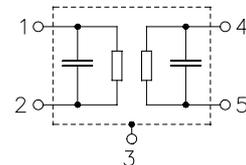
- Tinned CuFe alloy



Dimensions in mm, approx. weight 0,5 g

Pin configuration

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



Type	Ordering code	Marking and package according to	Packing according to
M 1867 D	B39458-M1867-N201	C61157-A1-A21	F61074-V8049-Z000

Maximum ratings

Operating 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_{pp}	10	V	between any terminals



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Characteristics

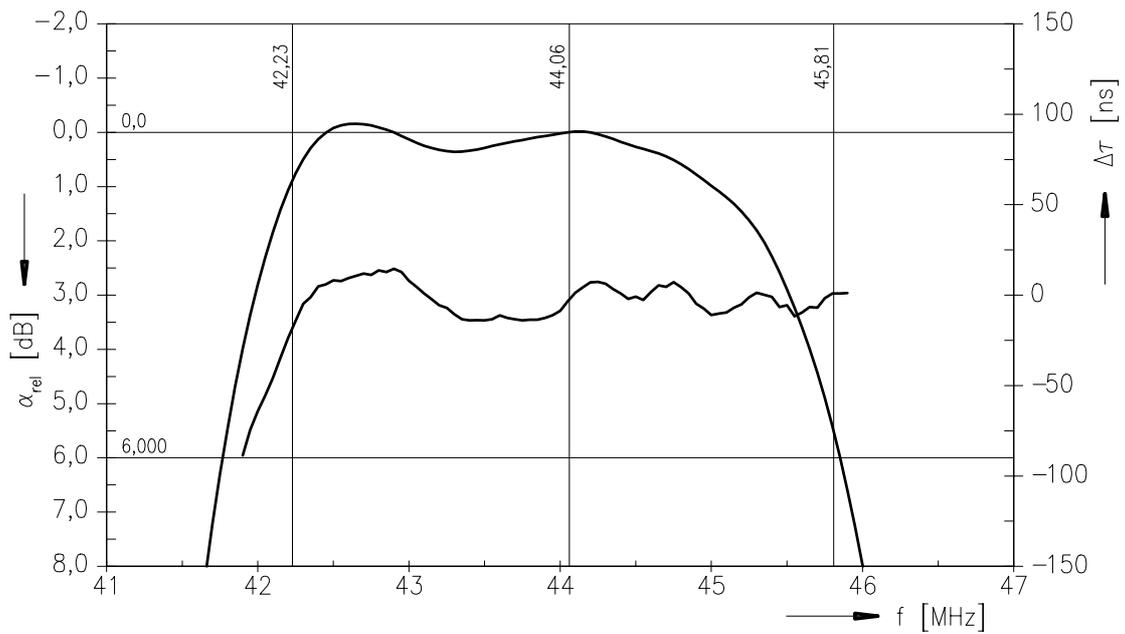
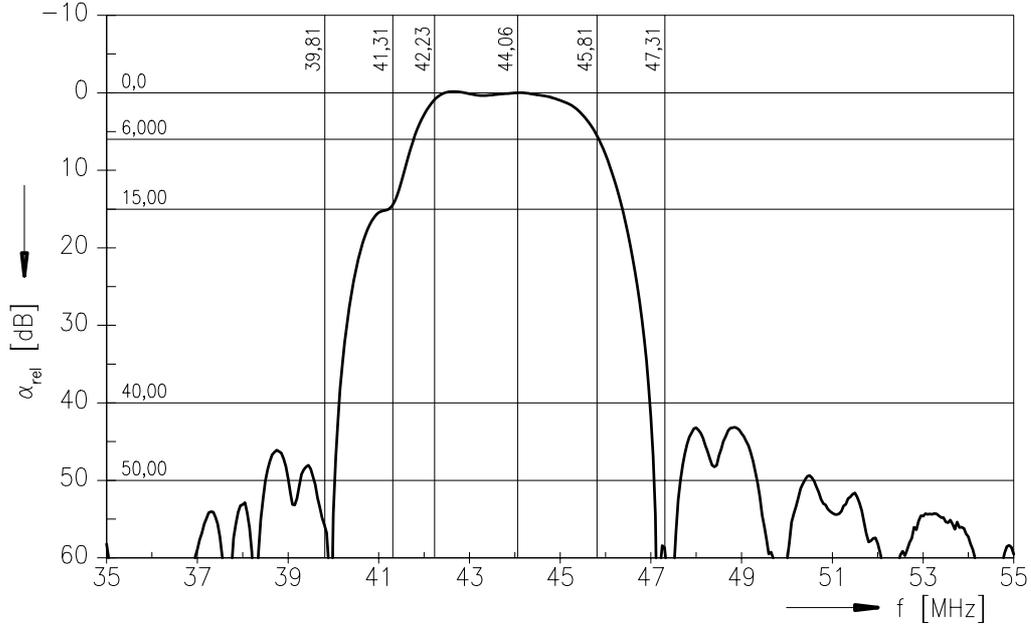
Reference temperature: $T_A = 25 (45) \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

		min.	typ.	max.	
Insertion attenuation	α				
Reference level for the following data	44,06 (44,00) MHz	11,2	12,7	14,2	dB
Relative attenuation	α_{rel}				
Picture carrier	45,81 (45,75) MHz	4,4	5,4	6,4	dB
Color carrier	42,23 (42,17) MHz	0,0	1,0	2,0	dB
Sound carrier	41,31 (41,25) MHz	13,0	14,5	16,0	dB
Adjacent picture carrier	39,81 (39,75) MHz	48,0	56,0	—	dB
Adjacent sound carrier	47,31 (47,25) MHz	48,0	55,0	—	dB
Lower sidelobe					
	35,06 ... 39,81 (35,00 ... 39,75) MHz	39,0	45,0	—	dB
Upper sidelobe					
	47,31 ... 55,06 (47,25 ... 55,00) MHz	37,0	43,0	—	dB
Reflected wave signal suppression					
1,2 ... 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)		40,0	53,0	—	dB
Feedthrough signal suppression					
1,0 ... 0,9 μs before main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)		50,0	56,0	—	dB
Group delay ripple (p-p)	$\Delta\tau$	—	40	—	ns
Impedance at 44,06 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,7 \parallel 10,3	—	k Ω \parallel pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	1,4 \parallel 3,2	—	k Ω \parallel pF
Temperature coefficient of frequency	TC_f	—	- 72	—	ppm/K



Data Sheet

Frequency response





SAW Components

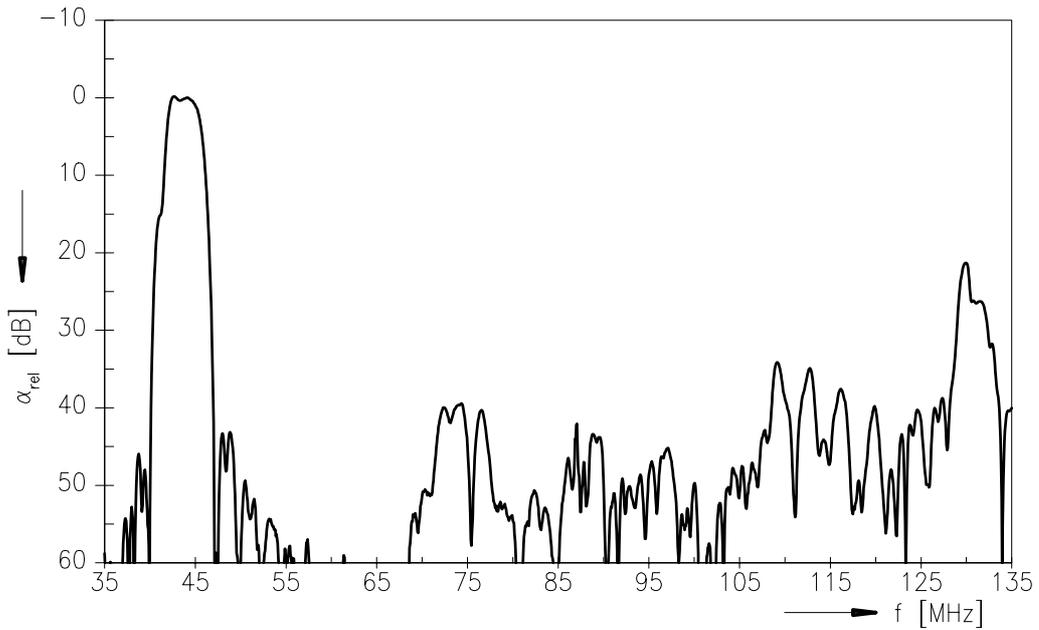
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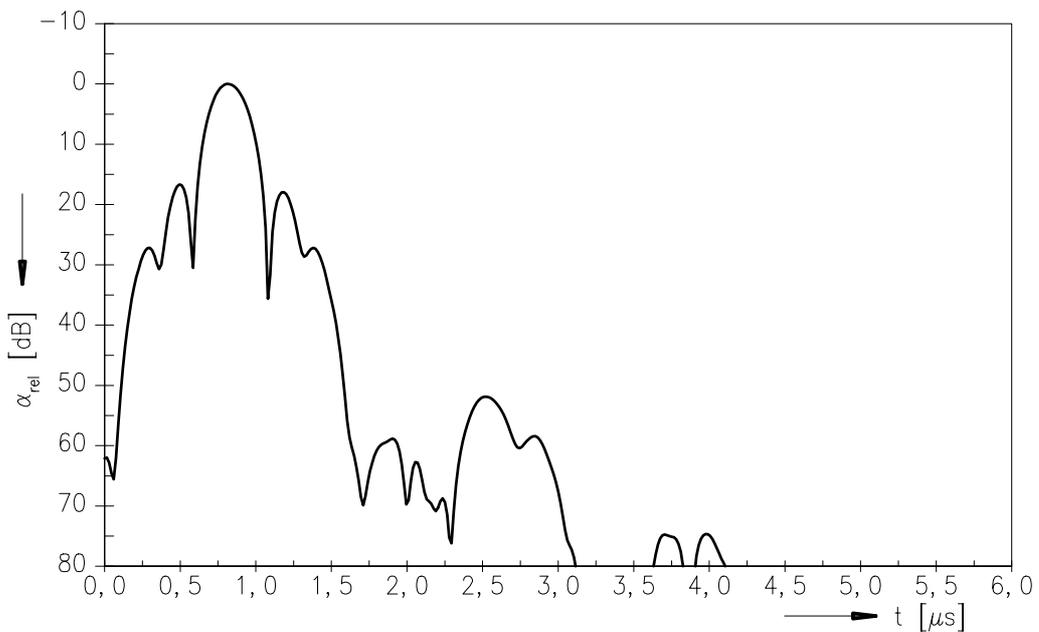
45,75 MHz

Data Sheet

Frequency response



Time domain response





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