



SAW Components

Data Sheet M 1865 D

Data Sheet

EPCOS



SAW Components

M 1865 D

IF Filter for Intercarrier Applications

45,75 MHz

Data Sheet

Standard

Duroplast package **SIP5D**

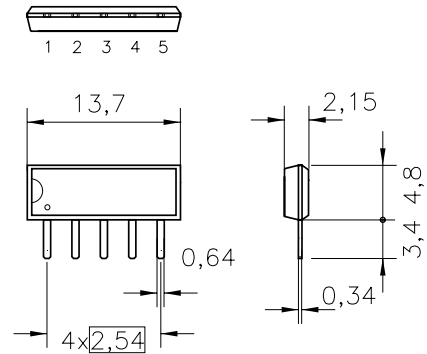
■ M/N

Features

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

Terminals

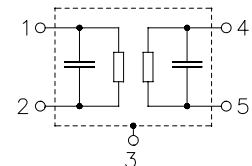
- Tinned CuFe alloy



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 1865 D	B39458-M1865-D100	C61157-A1-A18	F61074-V8049-Z000

Maximum ratings

Operable temperature range	T_A	-25/+65	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	12	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals



SAW Components

M 1865 D

IF Filter for Intercarrier Applications

45,75 MHz

Data Sheet

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	11,6	13,1	14,6	dB
Relative attenuation	α_{rel}				
Picture carrier	45,81 (45,75) MHz	4,3	5,3	6,3	dB
Color carrier	42,23 (42,17) MHz	-0,7	0,3	1,3	dB
Sound carrier	41,31 (41,25) MHz	11,8	13,3	14,8	dB
Adjacent picture carrier	39,81 (39,75) MHz	43,0	56,0	—	dB
Adjacent sound carrier	47,31 (47,25) MHz	43,0	53,0	—	dB
Lower sidelobe	35,06 ... 39,81 (35,00 ... 39,75) MHz	37,0	43,0	—	dB
Upper sidelobe	47,31 ... 55,06 (47,25 ... 55,00) MHz	37,0	43,0	—	dB
Reflected wave signal suppression					
1,2 μs ... 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)		42,0	52,0	—	dB
Feedthrough signal suppression					
1,0 μs ... 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)	$\Delta\tau$	—	50	—	ns
Impedance at 44,06 MHz					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	1,1 $\parallel$ 14,7	—	k Ω $\parallel$ pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	1,4 $\parallel$ 3,1	—	k Ω $\parallel$ pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K



SAW Components

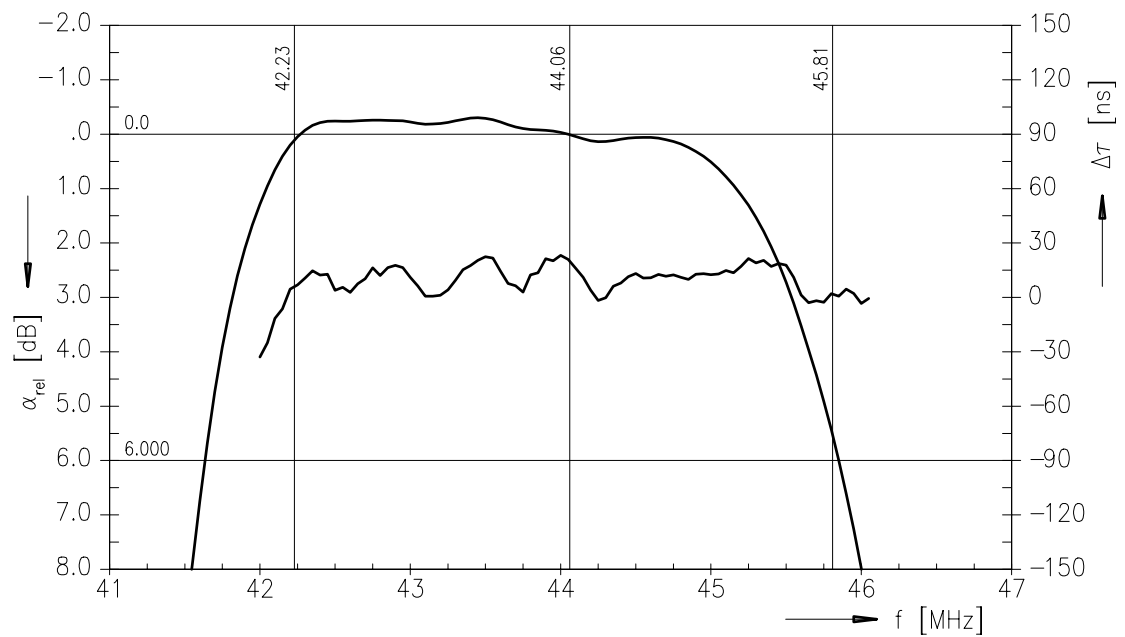
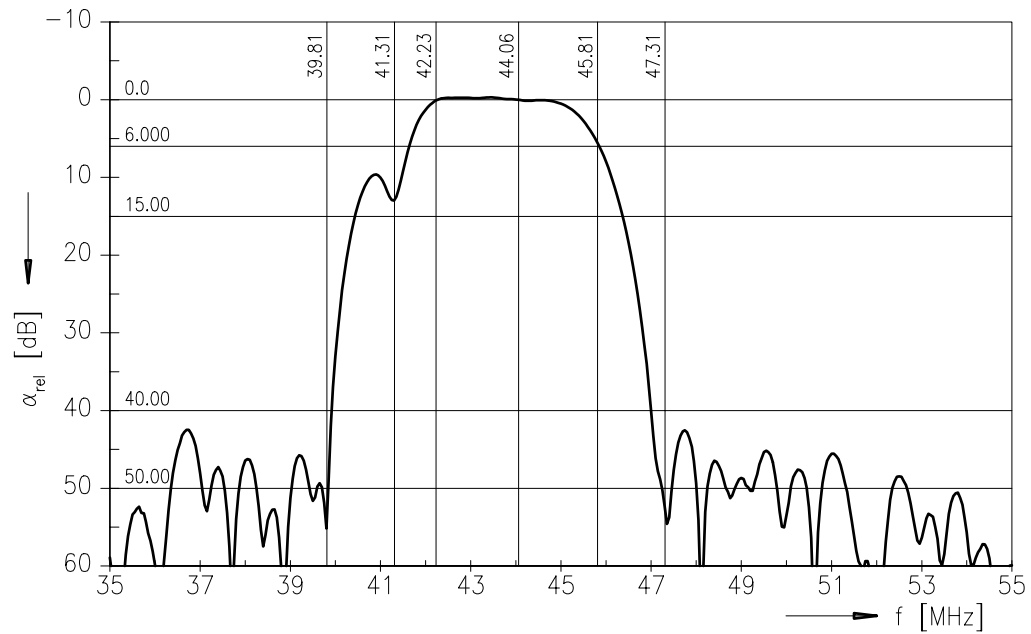
M 1865 D

IF Filter for Intercarrier Applications

45,75 MHz

Data Sheet

Frequency response





SAW Components

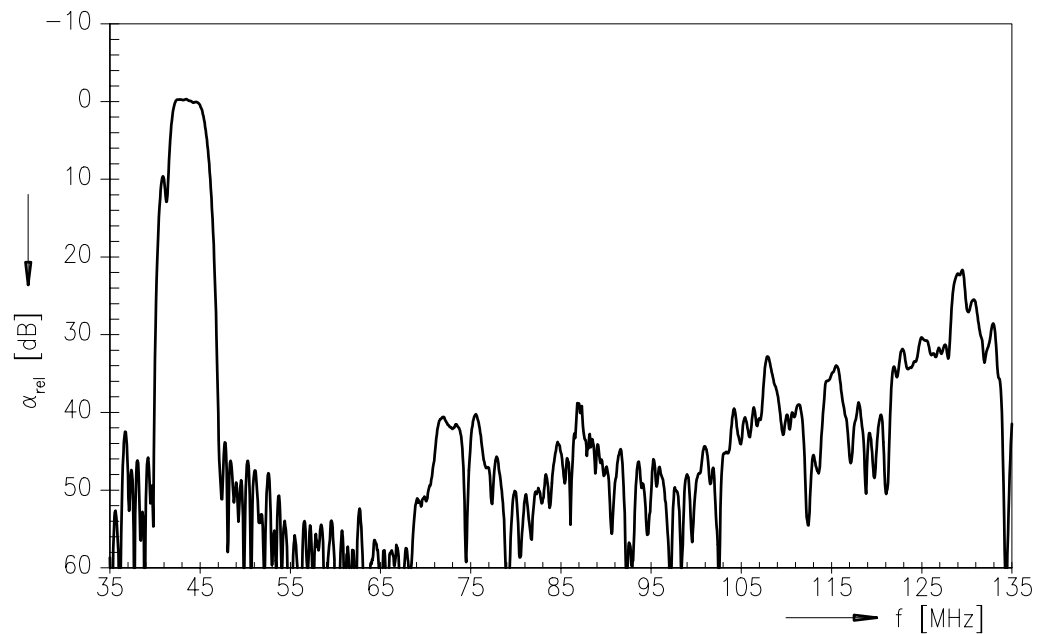
M 1865 D

IF Filter for Intercarrier Applications

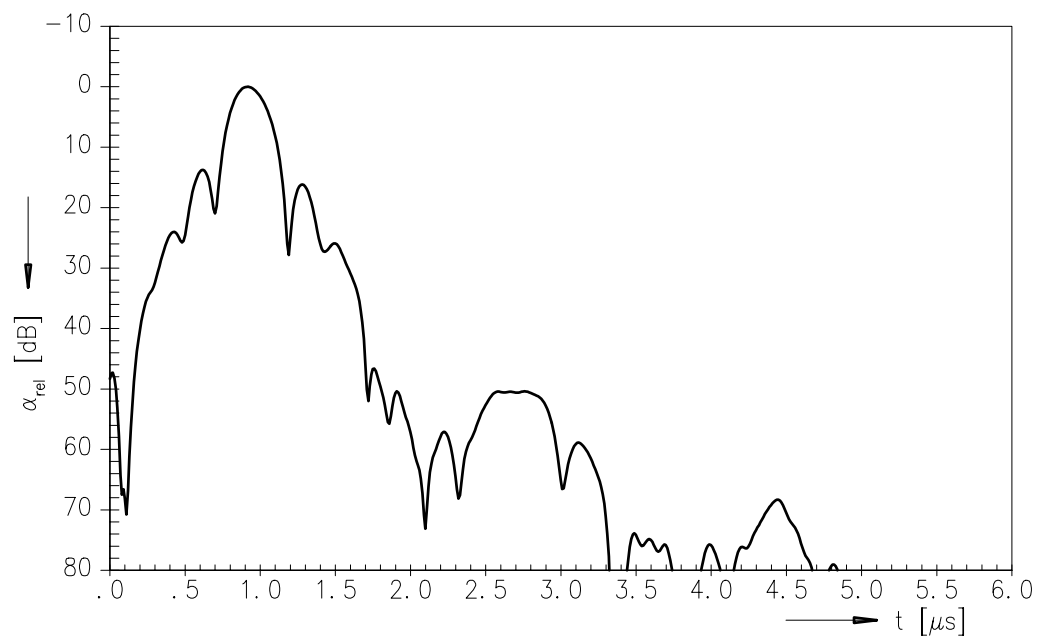
45,75 MHz

Data Sheet

Frequency response



Time domain response





SAW Components	M 1865 D
IF Filter for Intercarrier Applications	45,75 MHz

Data Sheet

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.