



IF Filters for Intercarrier Applications

Series/Type: N1955M

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B39588N1955M100		2009-12-23	2010-06-30	2010-09-30

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

N 1955 M

IF Filter for Intercarrier Applications

58,75 MHz

Data Sheet

Standard

Plastic package **SIP5K**

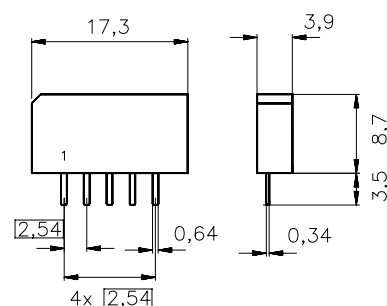
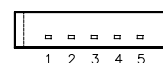
■ M

Features

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

Terminals

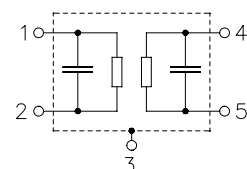
- Tinned CuFe alloy



Dimensions in mm, approx. weight 1,0 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
N 1955 M	B39588-N1955-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_{pp}	10	V	between any terminals



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Characteristics

Reference temperature: $T_A = 25 (45) ^\circ \text{C}$
 Terminating source impedance: $Z_S = 50 \Omega$
 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	57,08 (57,00) MHz	9,7	11,2	12,7	dB
Relative attenuation	α_{rel}				
Picture carrier	58,83 (58,75) MHz	3,8	4,8	5,8	dB
Color carrier	55,25 (55,17) MHz	3,3	4,3	5,3	dB
Sound carrier	54,33 (54,25) MHz	15,9	17,4	18,9	dB
Adjacent picture carrier	52,83 (52,75) MHz	48,0	60,0	—	dB
Adjacent sound carrier	60,33 (60,25) MHz	46,0	52,0	—	dB
Lower sidelobe	45,08 ... 52,83 (45,00 ... 52,75) MHz	37,0	42,0	—	dB
Upper sidelobe	60,33 ... 65,08 (60,25 ... 65,00) MHz	36,0	40,0	—	dB
Reflected wave signal suppression					
1,0 μs ... 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 57,08 MHz)		40,0	47,0	—	dB
Feedthrough signal suppression					
1,0 μs ... 0,9 μs before main pulse (test pulse 250 ns, carrier frequency 57,08 MHz)		—	56,0	—	dB
Group delay ripple (p-p)	$\Delta\tau$	—	50	—	ns
Impedance at 57,08 MHz					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	0,9 \parallel 11,2	—	k Ω \parallel pF
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	0,5 \parallel 3,8	—	k Ω \parallel pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K



SAW Components

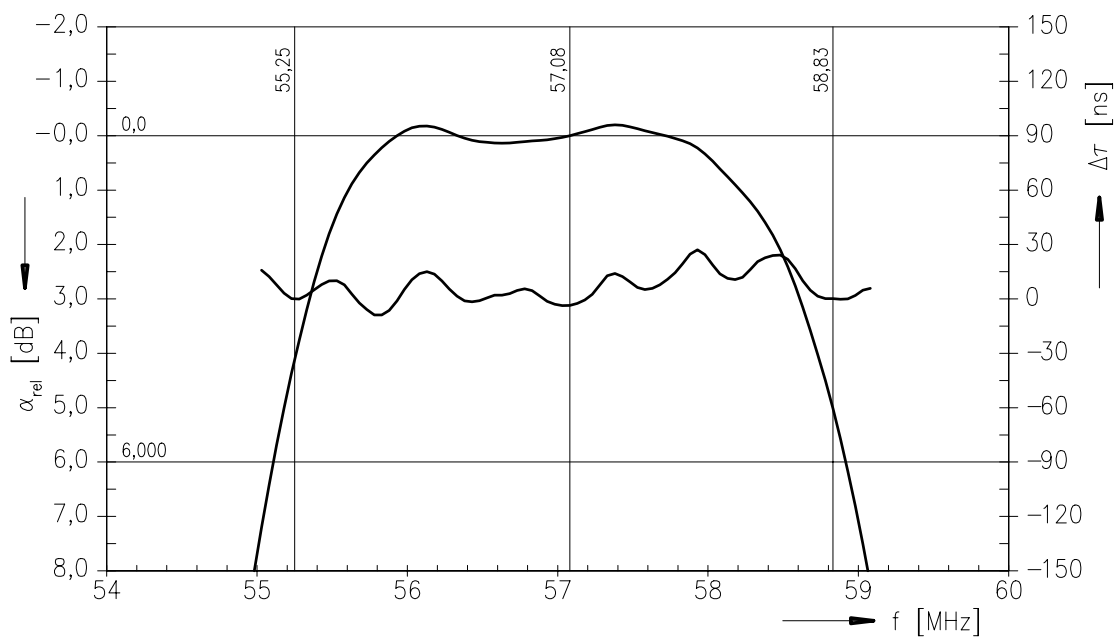
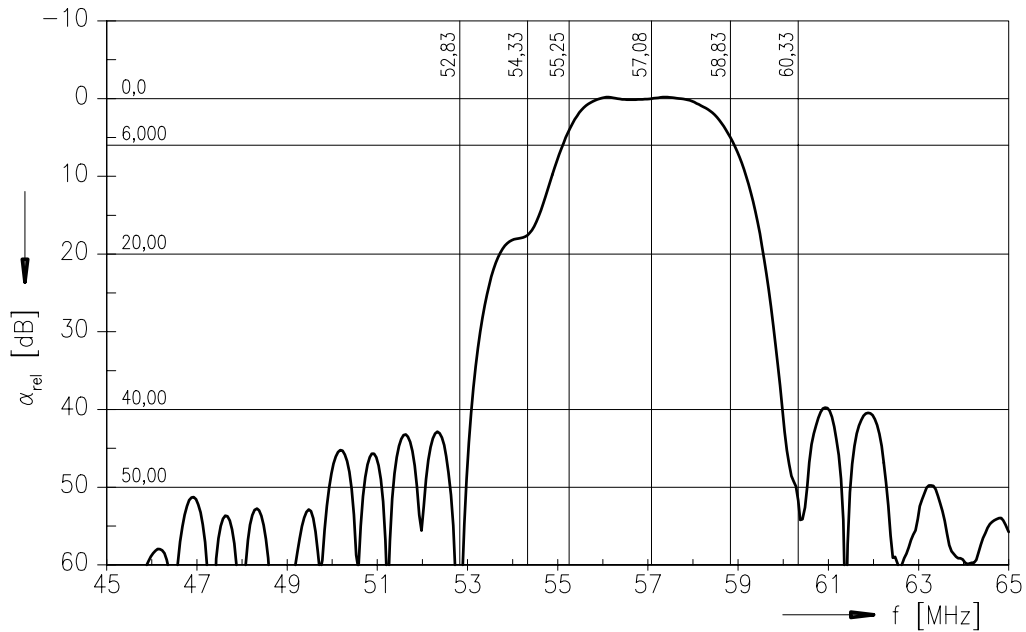
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58,75 MHz

Data Sheet

Frequency response





SAW Components

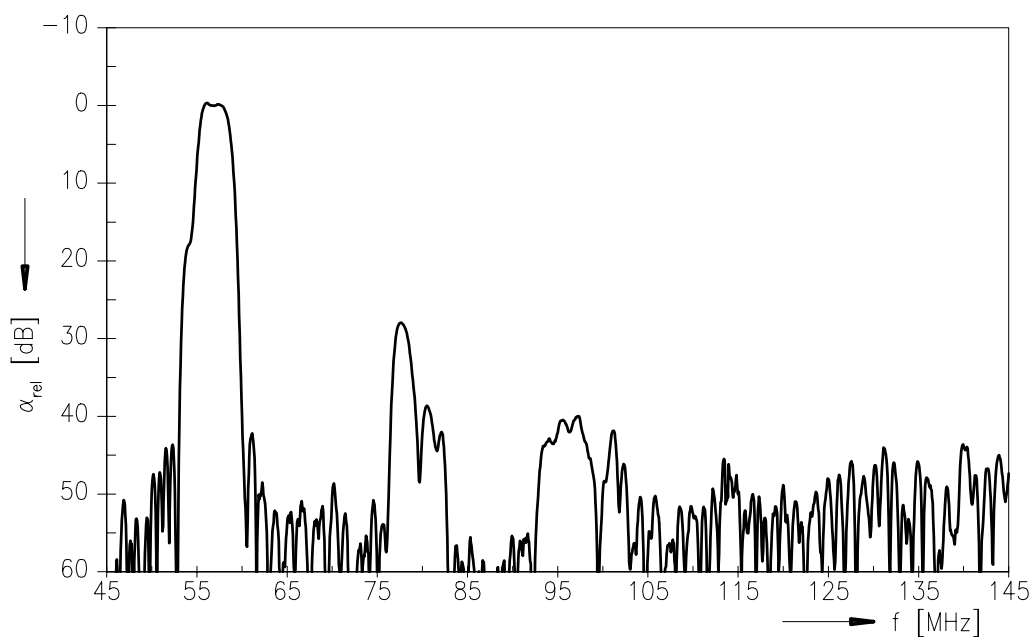
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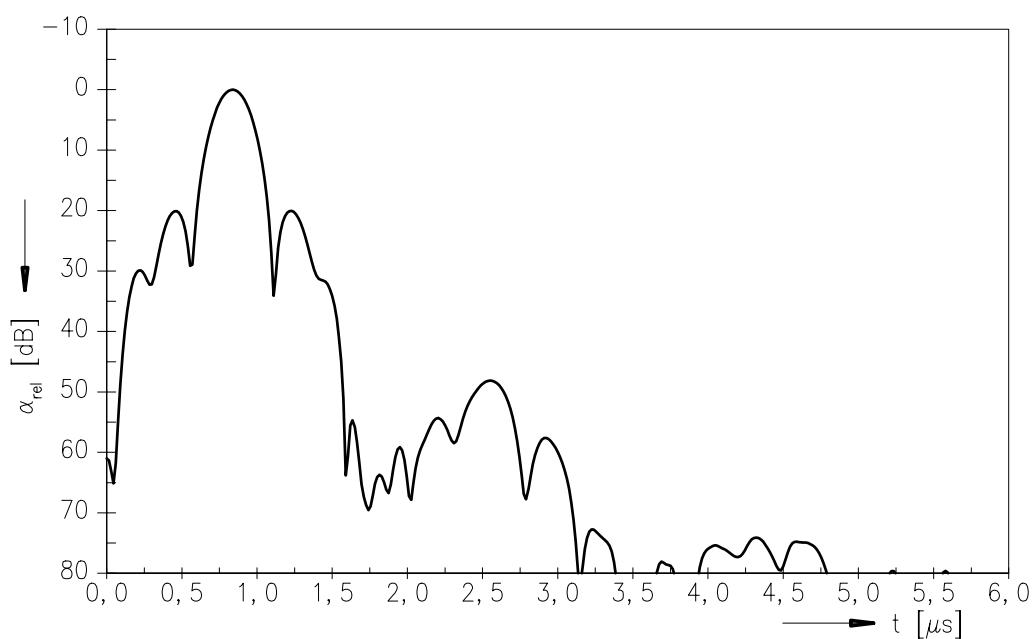
58,75 MHz

Data Sheet

Frequency response



Time domain response





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