



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The following products presented in this data sheet are being withdrawn.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

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**SAW Components****N 1955 M****IF Filter for Intercarrier Applications****58,75 MHz****Data Sheet****Standard**Plastic package **SIP5K**

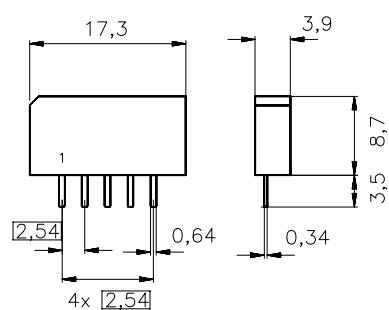
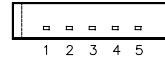
- M

**Features**

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

**Terminals**

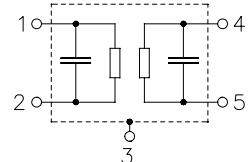
- Tinned CuFe alloy



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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## Data Sheet

### Characteristics

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

		<b>min.</b>	<b>typ.</b>	<b>max.</b>	
<b>Insertion attenuation</b>	$\alpha$				
Reference level for the following data	57,08 (57,00) MHz	9,7	11,2	12,7	dB
<b>Relative attenuation</b>	$\alpha_{\text{rel}}$				
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
<b>Reflected wave signal suppression</b>					
1,0 $\mu\text{s}$ ... 6,0 $\mu\text{s}$ after main pulse (test pulse 250 ns, carrier frequency 57,08 MHz)		40,0	47,0	—	dB
<b>Feedthrough signal suppression</b>					
1,0 $\mu\text{s}$ ... 0,9 $\mu\text{s}$ before main pulse (test pulse 250 ns, carrier frequency 57,08 MHz)		—	56,0	—	dB
<b>Group delay ripple (p-p)</b>	$\Delta\tau$	—	50	—	ns
<b>Impedance at 57,08 MHz</b>					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	0,9 $\parallel$ 11,2	—	$\text{k}\Omega \parallel \text{pF}$
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	0,5 $\parallel$ 3,8	—	$\text{k}\Omega \parallel \text{pF}$
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-72	—	ppm/K

**SAW Components**

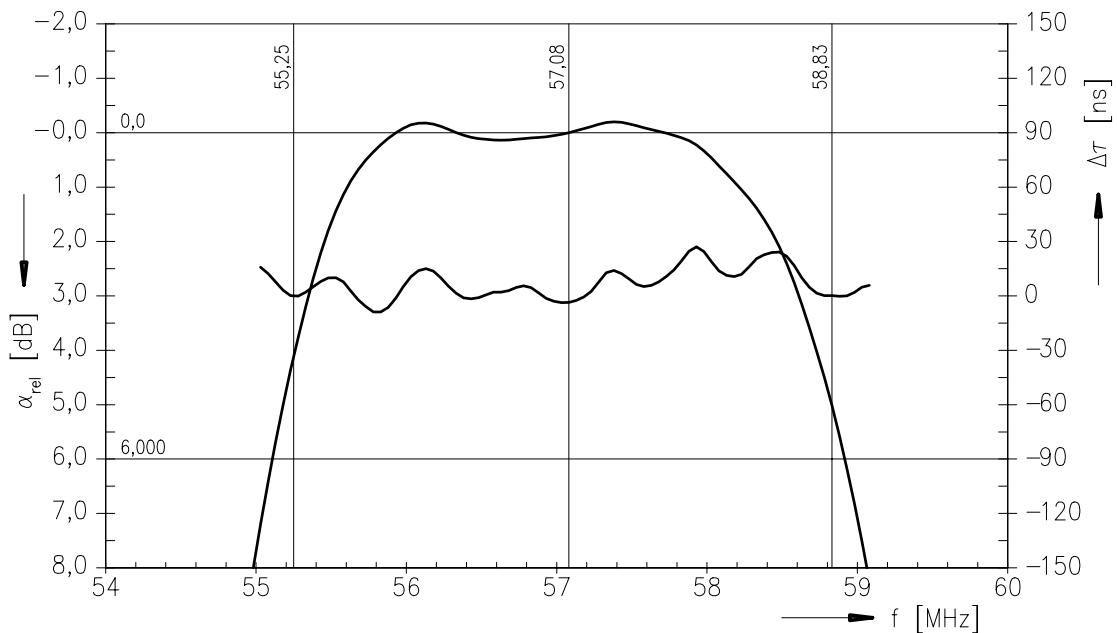
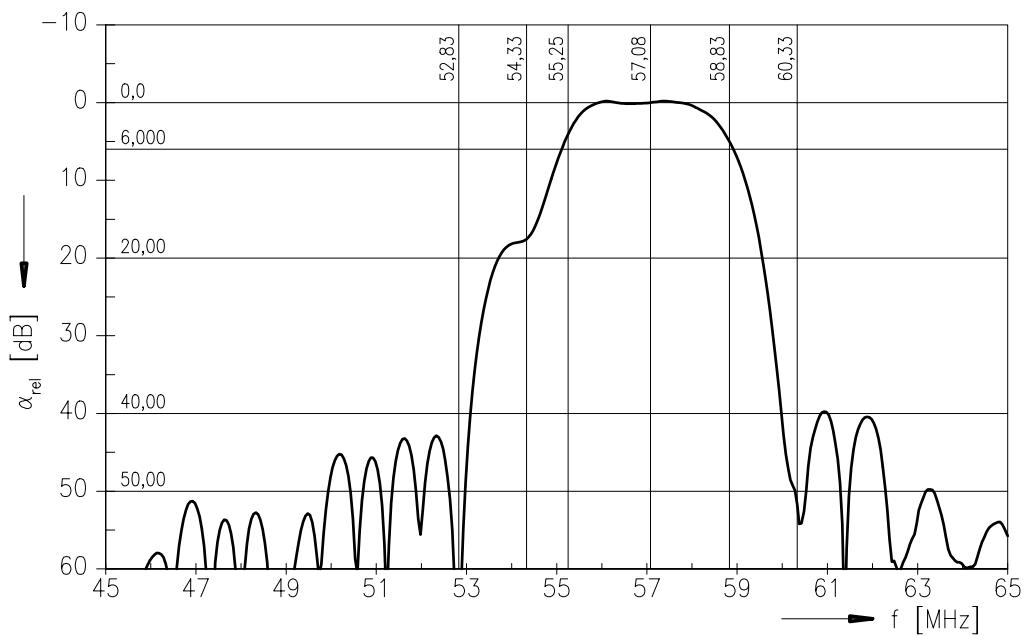
**N 1955 M**

**IF Filter for Intercarrier Applications**

**58,75 MHz**

**Data Sheet**

**Frequency response**





**SAW Components**

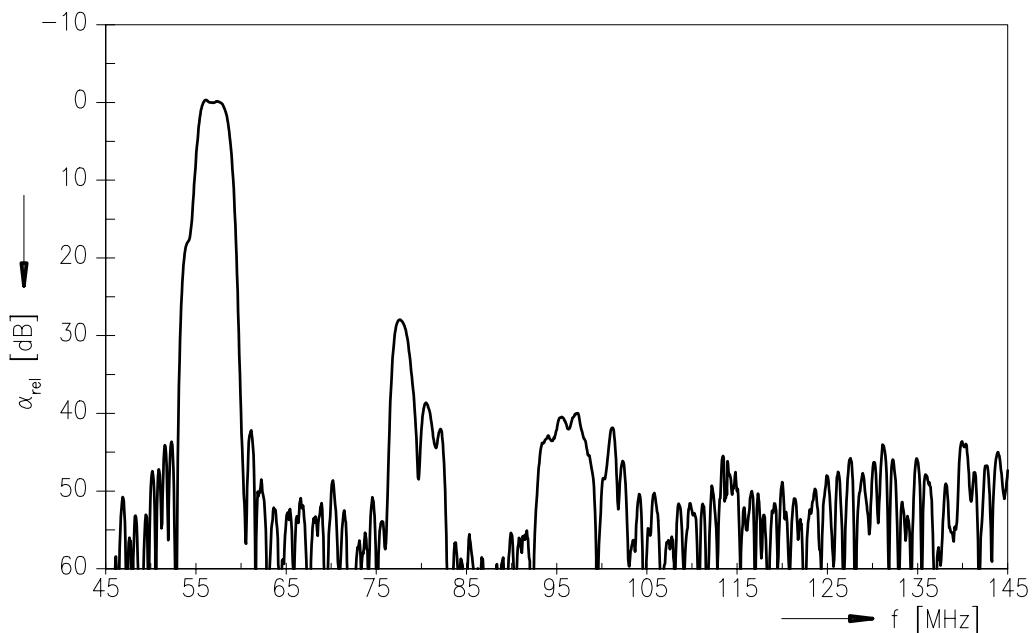
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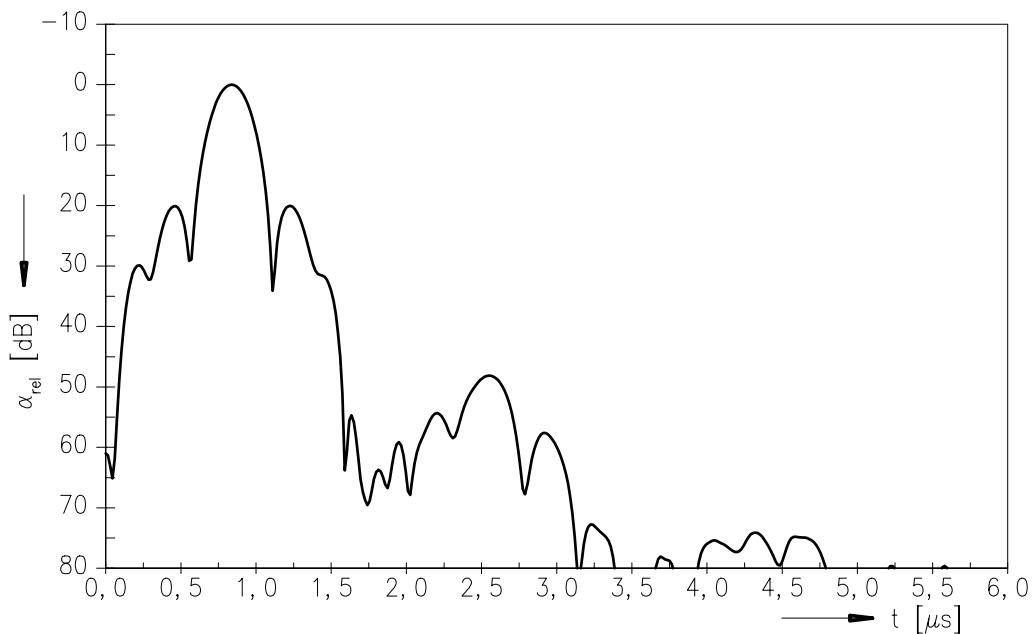
**58,75 MHz**

**Data Sheet**

**Frequency response**



**Time domain response**





**SAW Components**

**N 1955 M**

**IF Filter for Intercarrier Applications**

**58,75 MHz**

**Data Sheet**

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