



**THE DATASHEET OF  
B39389G1986M100**





# SAW Components

Data Sheet G 1986 M





**SAW Components**

**G 1986 M**

**IF Filter for Intercarrier Applications**

**38,90 MHz**

**Data Sheet**

**Standard**

Plastic package **SIP5K**

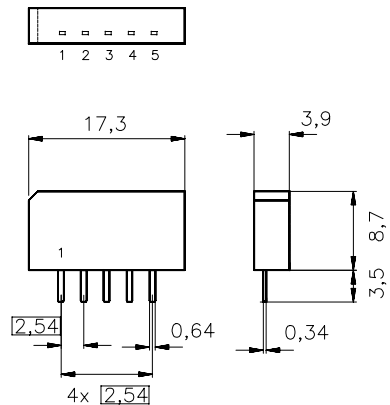
- B/G

**Features**

- TV IF filter with Nyquist slope and sound shelf
- High color carrier level
- Reduced group delay predistortion as compared with standard B/G, half
- Extended sound shelf for NICAM reception

**Terminals**

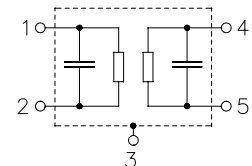
- Tinned CuFe alloy



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
G 1986 M	B39389-G1986-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**

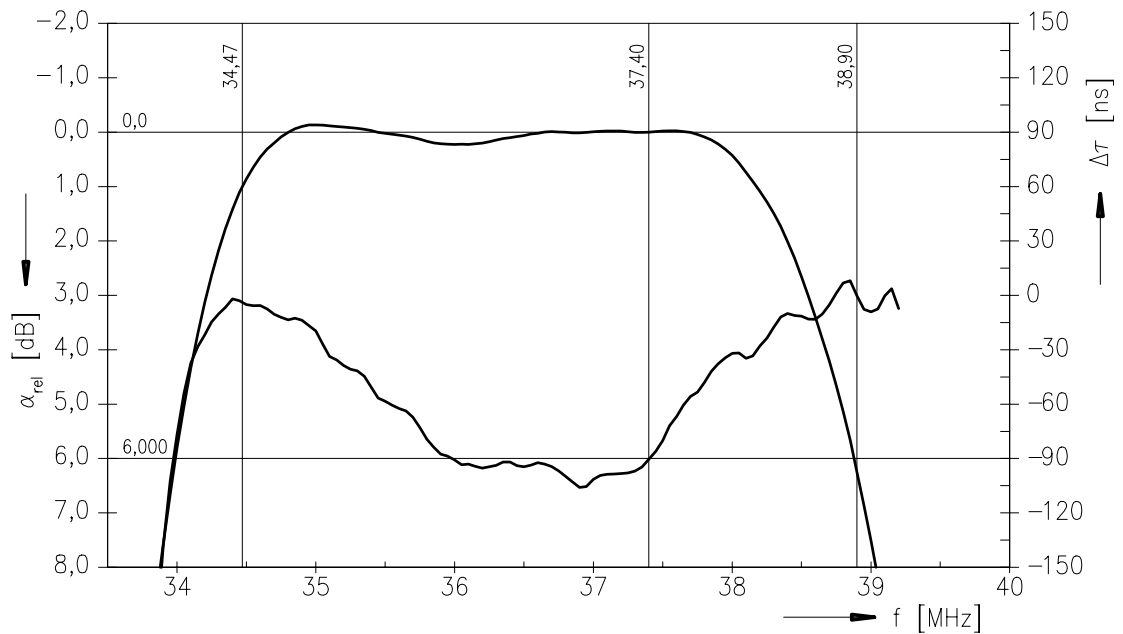
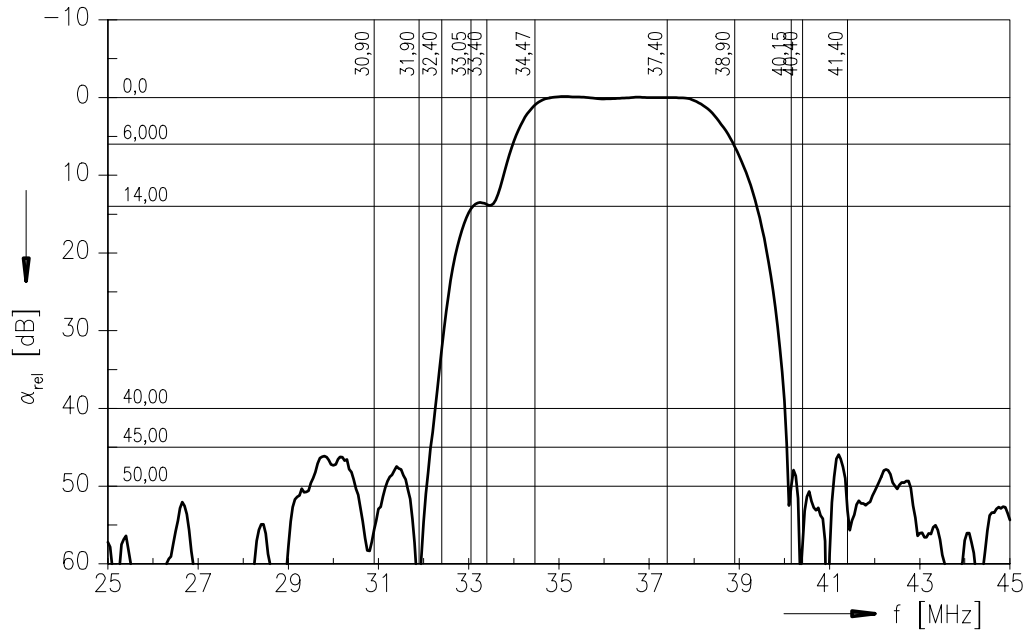
Reference temperature:  $T_A = 25\text{ °C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$   
 Terminating load impedance:  $Z_L = 2\text{ k}\Omega \parallel 3\text{ pF}$

		min.	typ.	max.	
<b>Insertion attenuation</b>					
	$\alpha$				
Reference level for the following data	37,40 MHz	14,3	15,8	17,3	dB
<b>Relative attenuation</b>					
	$\alpha_{rel}$				
Picture carrier	38,90 MHz	5,2	6,2	7,2	dB
Color carrier	34,47 MHz	-0,3	0,7	1,7	dB
Sound carrier	33,40 MHz	12,5	13,5	14,5	dB
	33,05 MHz	—	13,8	—	dB
Adjacent picture carrier	30,90 MHz	46,0	56,0	—	dB
	31,90 MHz	48,0	60,0	—	dB
	32,40 MHz	27,0	32,0	—	dB
	40,15 MHz	40,0	48,0	—	dB
Adjacent sound carrier	40,40 MHz	45,0	57,0	—	dB
	41,40 MHz	44,0	56,0	—	dB
Lower sidelobe	25,00 ... 30,90 MHz	40,0	45,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz	40,0	48,0	—	dB
<b>Reflected wave signal suppression</b>					
1,2 $\mu$ s ... 6,0 $\mu$ s after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)		42,0	52,0	—	dB
<b>Feedthrough signal suppression</b>					
1,2 $\mu$ s ... 1,1 $\mu$ s before main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)		50,0	56,0	—	dB
<b>Group delay predistortion</b>					
(reference frequency 38,90 MHz)					
	$\Delta\tau$				
	36,90 MHz	—	-90	—	ns
	34,47 MHz	—	10	—	ns
<b>Impedance at 37,40 MHz</b>					
Input:	$Z_{IN} = R_{IN} \parallel C_{IN}$	—	2,1 $\parallel$ 10,4	—	k $\Omega$ $\parallel$ pF
Output:	$Z_{OUT} = R_{OUT} \parallel C_{OUT}$	—	2,5 $\parallel$ 3,5	—	k $\Omega$ $\parallel$ pF
<b>Temperature coefficient of frequency</b>					
	$TC_f$	—	-72	—	ppm/K



Data Sheet

Frequency response





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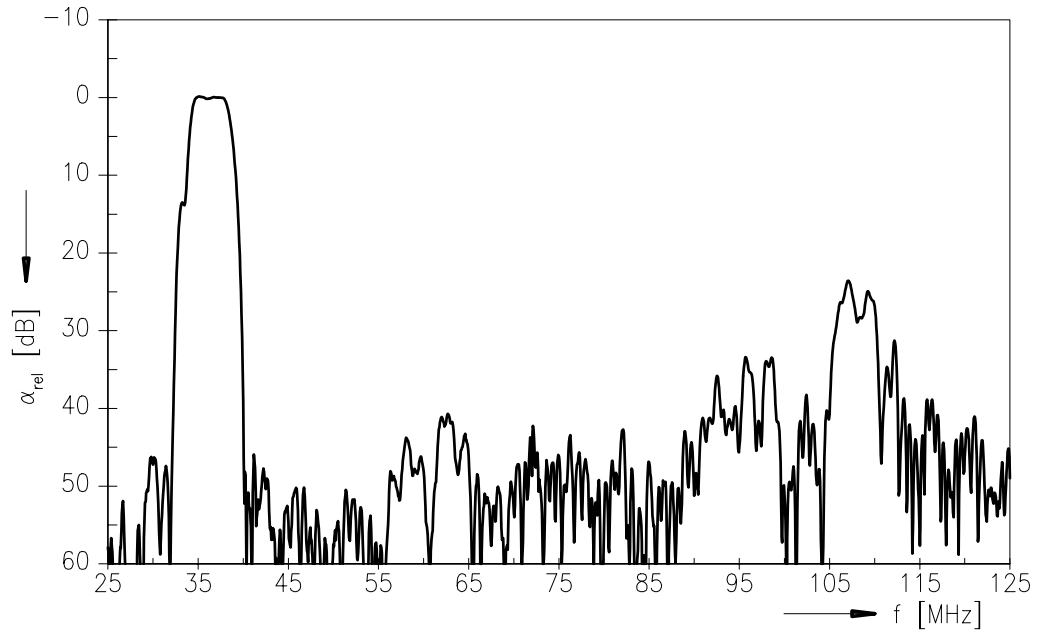
G 1986 M

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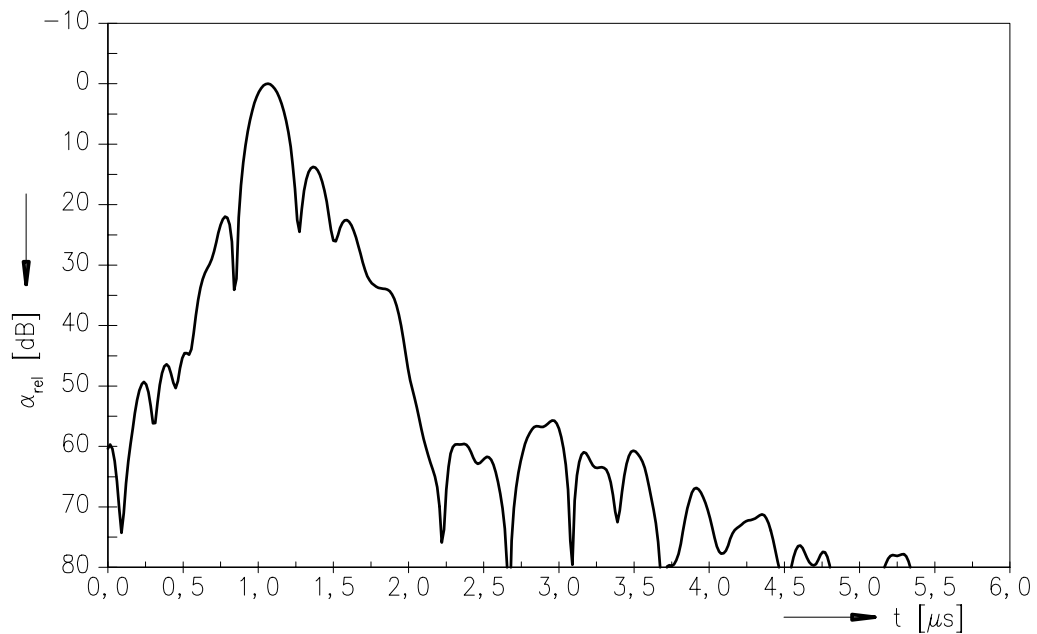
38,90 MHz

Data Sheet

Frequency response



Time domain response





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