

Data Sheet G 1986 M





G 1986 M

IF Filter for Intercarrier Applications

38,90 MHz

Plastic package SIP5K

Data Sheet

Standard

■ 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

17,3 3,9 1,0,64 4x [2,54]

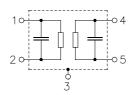
Terminals

■ 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



Туре	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	$T_{ m stg}$	- 40/+ 85	°C	
DC voltage	V_{DC}	5	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



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Characteristics

Reference temperature: $T_{\rm A} = 25\,^{\circ}{\rm C}$ Terminating source impedance: $Z_{\rm S} = 50\,\Omega$ Terminating load impedance: $Z_{\rm I} = 2\,{\rm k}\Omega\,{\rm km}$

min. typ. max. α Insertion attenuation Reference level for the 37,40 MHz 17,3 dB 14,3 15,8 following data Relative attenuation α_{rel} Picture carrier 38,90 MHz 5,2 6,2 7,2 dB Color carrier 34.47 MHz -0,30,7 1,7 dB Sound carrier 33,40 MHz 12,5 14,5 dB 13,5 33,05 MHz dB 13,8 dB Adjacent picture carrier 30,90 MHz 46,0 56,0 31,90 MHz 48,0 60,0 dB 32,40 MHz 32,0 dB 27,0 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 Reflected wave signal suppression 1,2 μs ... 6,0 μs after main pulse 42,0 52,0 dB (test pulse 250 ns, carrier frequency 37,40 MHz) Feedthrough signal suppression 1,2 µs ... 1,1 µs before main pulse 50,0 dB 56,0 (test pulse 250 ns, carrier frequency 37,40 MHz) **Group delay predistortion** $\Delta \tau$ (reference frequency 38,90 MHz) 36,90 MHz -90 ns 34,47 MHz 10 ns Impedance at 37,40 MHz Input: $Z_{IN} = R_{IN} \parallel C_{IN}$ 2,1 || 10,4 $k\Omega \parallel pF$ Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$ 2,5 | 3,5 $k\Omega \parallel pF$ TC_{f} -72 ppm/K Temperature coefficient of frequency



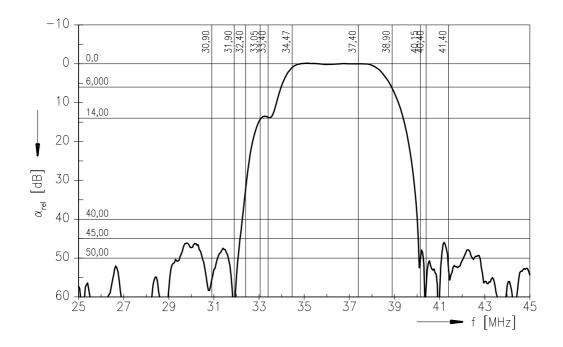
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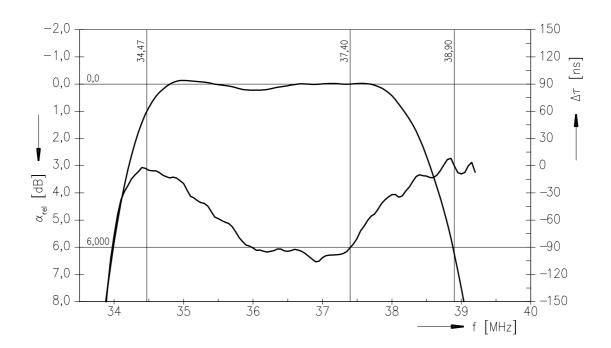
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Frequency response







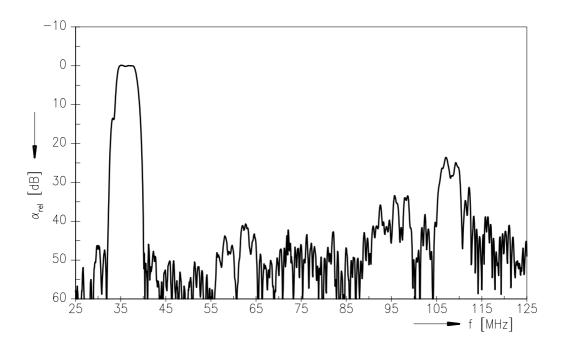
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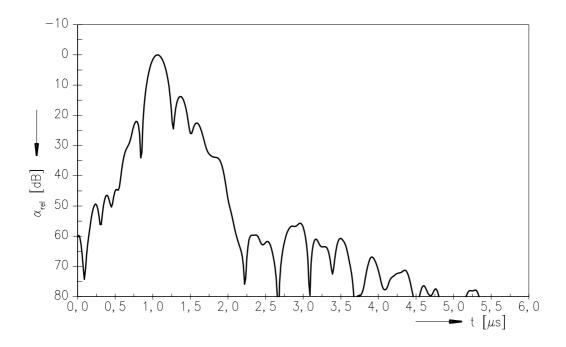
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Frequency response



Time domain response





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