

Data Sheet G 1985 M





G 1985 M

IF Filter for Intercarrier Applications

38,90 MHz

Plastic package SIP5K

Data Sheet

Standard

■ B/G

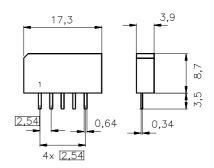
Features

- 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
- Suitable for CENELEC EN 55020

Terminals

■ Tinned CuFe alloy

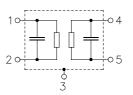
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Dimensions in mm, approx. weight 1,0 g

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 1985 M	B39389-G1985-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



SAW Components G 1985 M

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Characteristics

 $T_{A} = 25 \,^{\circ}\text{C}$ $Z_{S} = 50 \,\Omega$ $Z_{L} = 2 \,\text{k}\Omega \parallel 3 \,\text{pF}$ Reference temperature: Terminating source impedance: Terminating load impedance:

					min.	typ.	max.	
Insertion attenuation				α				
Reference level for the		37,40	MHz		11,6	13,1	14,6	dB
following data								
Relative attenuation				α_{rel}				
Picture carrier		38,90	MHz		5,2	6,2	7,2	dB
Color carrier		34,47	MHz		-0,8	0,2	1,2	dB
Sound carrier		33,40	MHz		12,9	14,4	15,9	dB
NICAM sound carrier		33,05	MHz			14,5	_	dB
Adjacent picture carrier		30,90	MHz		49,0	56,0	_	dB
		31,40	MHz		50,0	60,0	_	dB
		31,90	MHz		50,0	63,0	_	dB
		32,40	MHz		36,0	43,0	_	dB
		40,15	MHz		44,0	56,0	_	dB
Adjacent sound carrier		40,40	MHz		50,0	60,0	_	dB
		41,40	MHz		47,0	60,0	_	dB
Lower sidelobe	25,00	31,90	MHz		43,0	48,0	_	dB
Upper sidelobe	40,40	45,00	MHz		44,0	50,0	_	dB
Reflected wave signal	suppressi	on						
1,2 μs 6,0 μs after ma	ain pulse				42,0	52,0	_	dB
(test pulse 250 ns,								
carrier frequency 37,40	MHz)							
- 14								
Feedthrough signal su					F0.0	50.0		4D
1,2 μs 1,1 μs before r	nain puise				50,0	56,0	_	dB
(test pulse 250 ns,	N 41 1-\							
carrier frequency 37,40	IVIHZ)							
Group delay predistortion Δτ			Δau					
(reference frequency 38	,90 MHz)							
		36,90	MHz			-90	_	ns
		34,47	MHz		_	70	_	ns
Impedance at 37,40 MH								
Input: $Z_{IN} = R_{IN} C_{IN}$				_	1,3 18,4	_	kΩ pF	
	$Z_{OUT} = R_0$				_	1,9 4,2	_	kΩ pF
Temperature coefficient of frequency			TC _f	_	-72	_	ppm/K	
remperature coefficient of frequency			. 71		<u>-</u>		1-1-1-1-1	



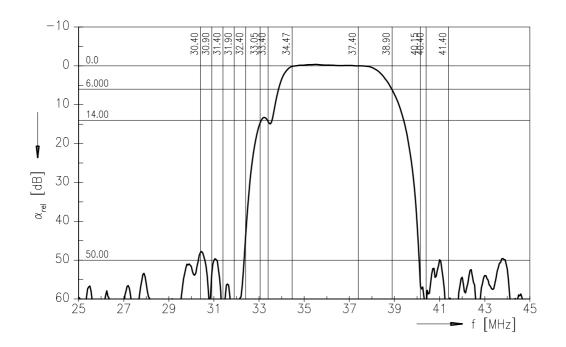
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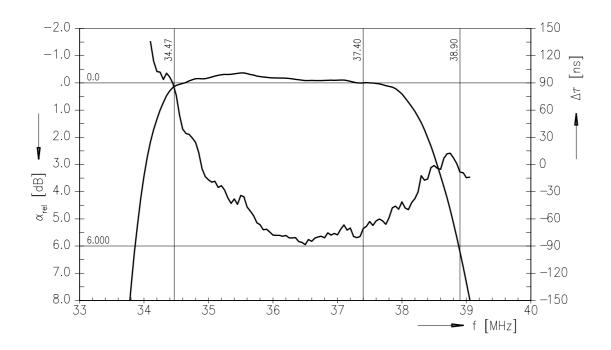
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Frequency response







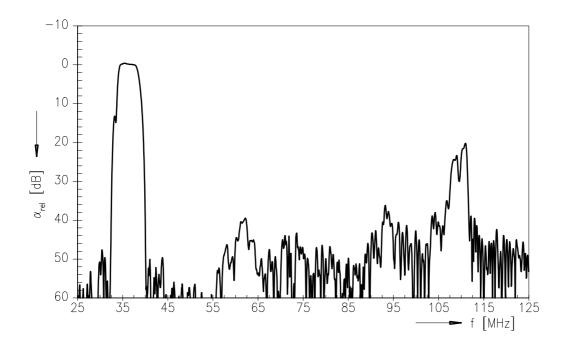
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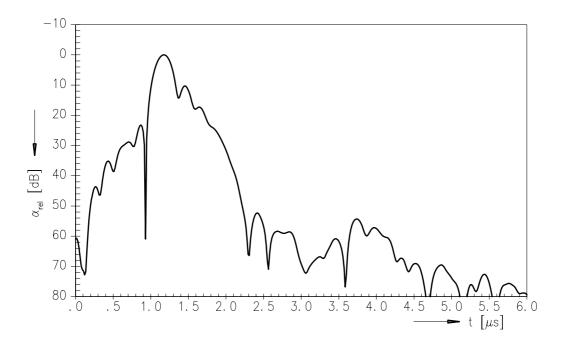
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Frequency response



Time domain response





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