

Data Sheet G 1963 M





G 1963 M

IF Filter for Intercarrier Applications

38,90 MHz

Plastic package SIP5K

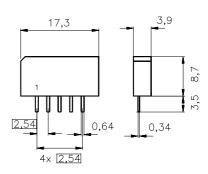
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Standard

■ 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
- Suitable for CENELEC EN 55020



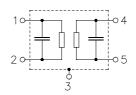
Terminals

■ 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 1963 M	B39389-G1963-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}	12	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



SAW Components G 1963 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 33	7,40	MHz		12,7	14,2	15,7	dB
following data							
Relative attenuation			$lpha_{ m rel}$				
Picture carrier 38	8,90	MHz	101	4,9	5,9	6,9	dB
Color carrier 34	4,47	MHz		-0,4	0,6	1,6	dB
34	4,15	MHz		_	3,2		dB
Sound carrier 33	3,40	MHz		19,1	20,1	21,1	dB
Adjacent picture carrier UHF 30,90 MHz				44,0	55,0	_	dB
VHF 3	1,90	MHz		42,0	46,0		dB
32	2,40	MHz		42,0	46,0		dB
40	0,15	MHz		42,0	50,0		dB
Adjacent sound carrier VHF 40	0,40	MHz		45,0	53,0	_	dB
	1,40	MHz		42,0	49,0	_	dB
Lower sidelobe 25,00 32	2,40	MHz		41,0	45,0	_	dB
Upper sidelobe 40,40 48	5,00	MHz		36,0	40,0	_	dB
Reflected wave signal suppression							
1,1 μs 6,0 μs after main pulse				44,0	50,0		dB
(test pulse 250 ns,							
carrier frequency 37,40 MHz)							
Feedthrough signal suppression							
1,2 μs 1,1 μs before main pulse				50,0	56,0		dB
(test pulse 250 ns,							
carrier frequency 37,40 MHz)							
Group delay predistortion			Δτ				
(reference frequency 38,90 MHz)							
	7,00	MHz		_	-85	_	ns
34	4,47	MHz			0	· 	ns
Impedance at 37,40 MHz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				_	1,8 14,8	_	$k\Omega \parallel pF$
Output: $Z_{OUT} = R_{OUT}$	$- \parallel C_{C}$	DUT		_	1,6 5,3		$k\Omega \parallel pF$
Temperature coefficient of frequency			TC_{f}		-72		ppm/K



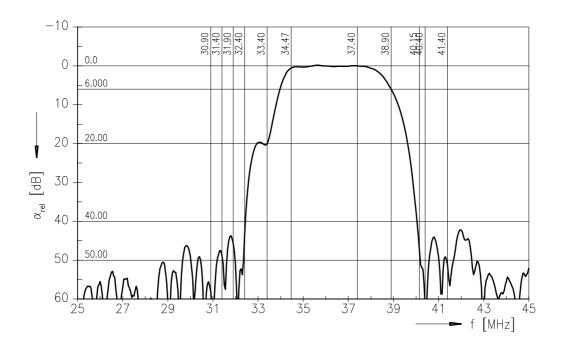
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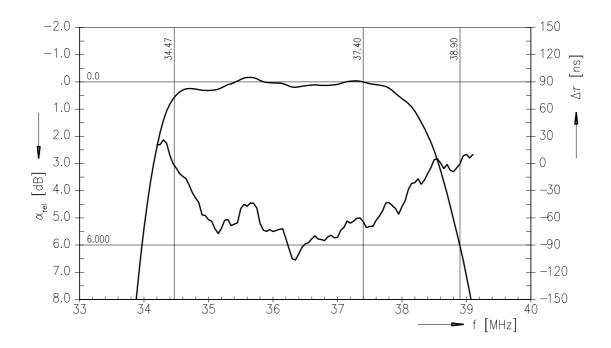
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Frequency response







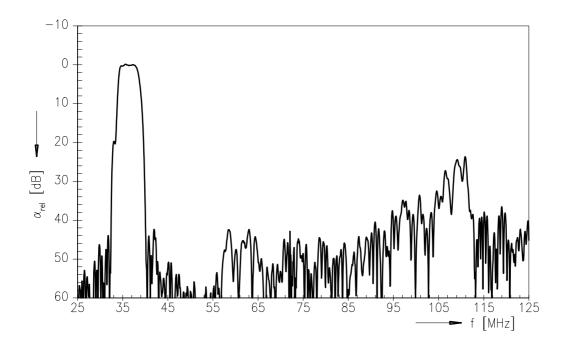
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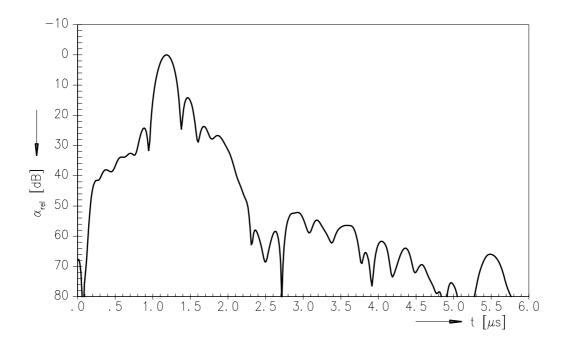
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Frequency response



Time domain response





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