

Data Sheet G 1963 M





G 1963 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
- Suitable for CENELEC EN 55020

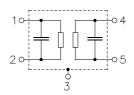
Terminals

■ 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

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

				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the 3	7,40	MHz		12,7	14,2	15,7	dB
following data							
Relative attenuation			α_{rel}				
Picture carrier 38	8,90	MHz		4,9	5,9	6,9	dB
Color carrier 3-	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 36	0,90	MHz		44,0	55,0	_	dB
VHF 3	1,90	MHz		42,0	46,0	_	dB
33	2,40	MHz		42,0	46,0	_	dB
40	0,15	MHz		42,0	50,0	_	dB
Adjacent sound carrier VHF 46	0,40	MHz		45,0	53,0	_	dB
UHF 4	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 49	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			Δau				
(reference frequency 38,90 MHz)							
3.	7,00	MHz		_	-85	<u> </u>	ns
3	4,47	MHz			0	<u> </u>	ns
Impedance at 37,40 MHz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				_	1,8 14,8	—	$k\Omega \parallel pF$
Output: $Z_{OUT} = R_{OUT}$	$ C_{C} $	DUT		_	1,6 5,3	_	$k\Omega \parallel pF$
Temperature coefficient of frequency			TC_{f}		-72		ppm/K



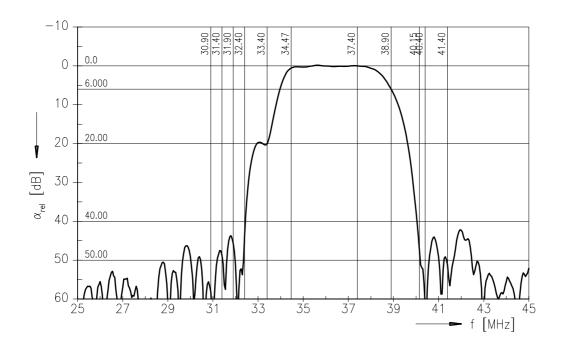
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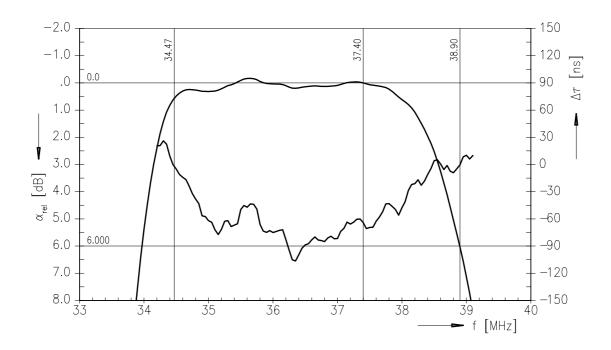
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Frequency response







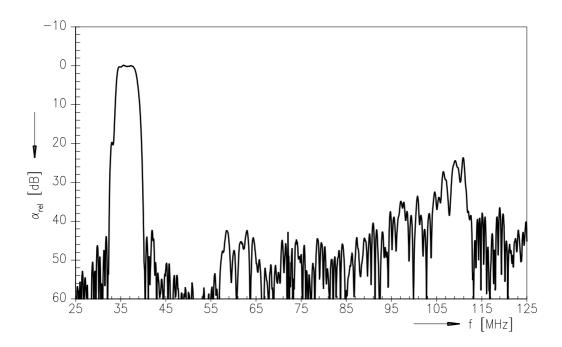
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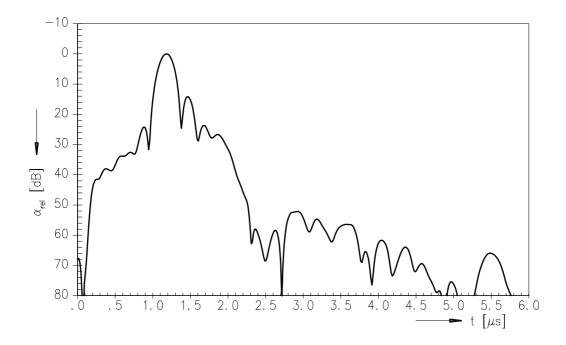
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Frequency response



Time domain response





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