

Data Sheet G 1965 M





G 1965 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
- Constant group delay
- Suitable for CENELEC EN 55020

17,3 3,9 1,0 2,54 4x 2,54

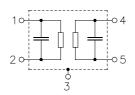
Terminals

■ 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 1965 M	B39389-G1965-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_{pp}	10	V	between any terminals



SAW Components G 1965 M

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Characteristics

 $\begin{array}{lll} \mbox{Reference temperature:} & T_{\mbox{A}} & = 25 \ ^{\circ}\mbox{C} \\ \mbox{Terminating source impedance:} & Z_{\mbox{S}} & = 50 \ \Omega \\ \mbox{Terminating load impedance:} & Z_{\mbox{L}} & = 2 \ \mbox{k}\Omega \ || \ 3 \ \mbox{pF} \\ \end{array}$

				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the	37,40	MHz		13,6	15,1	16,6	dB
following data							
Relative attenuation			$lpha_{rel}$				
Picture carrier	38,90	MHz		5,0	6,0	7,0	dB
	33,90	MHz			6,2	_	dB
Color carrier	34,47	MHz		0,0	1,0	2,0	dB
Sound carrier	33,40	MHz		18,9	20,4	21,9	dB
Adjacent picture carrier UHF	30,90	MHz		45,0	57,0	_	dB
VHF	31,90	MHz		48,0	55,0	_	dB
	31,40	MHz		46,0	61,0	_	dB
	32,40	MHz		48,0	55,0	_	dB
	40,15	MHz		38,0	48,0	_	dB
Adjacent sound carrier VHF	40,40	MHz		44,0	55,0	_	dB
UHF	41,40	MHz		42,0	53,0	_	dB
Lower sidelobe 25,00	31,90	MHz		40,0	47,0	_	dB
Upper sidelobe 40,40	45,00	MHz		38,0	48,0	_	dB
Reflected wave signal suppress	sion						
1,1 μs 6,0 μs after main pulse				42,0	53,0	_	dB
(test pulse 250 ns,							
carrier frequency 37,40 MHz)							
Feedthrough signal suppression	n						
1,3 μs 1,1 μs before main pulse	e			50,0	56,0	_	dB
(test pulse 250 ns,							
carrier frequency 37,40 MHz)							
Group delay ripple (p-p)			Δτ		50		ns
Impedance at 37,40 MHz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				_	1,9 13,8	_	k Ω \parallel pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$				_	1,5 4,8	_	kΩ pF
Temperature coefficient of frequency			TC_{f}		-72	_	ppm/K



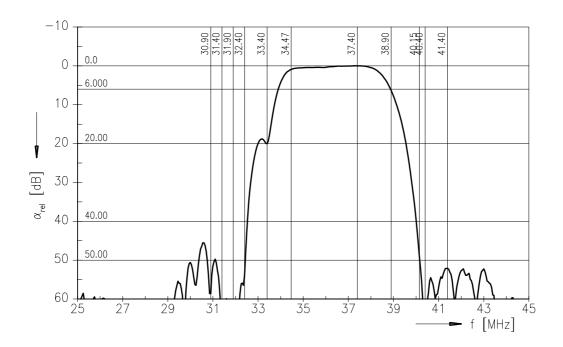
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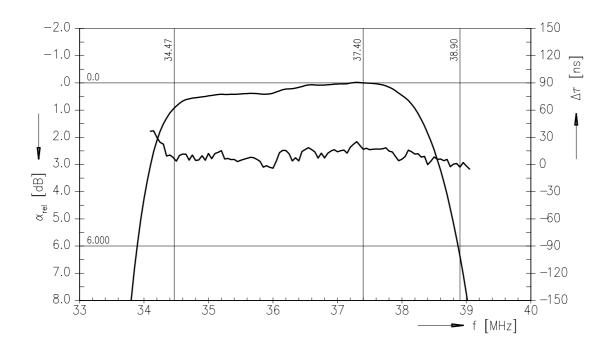
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Frequency response







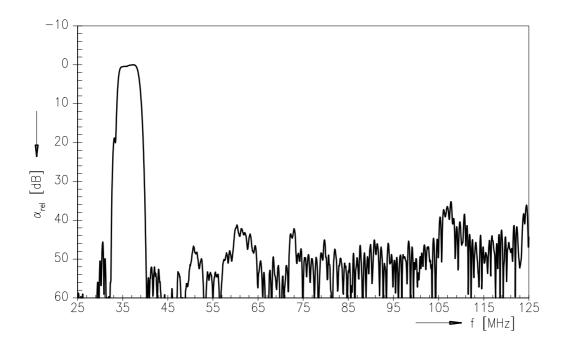
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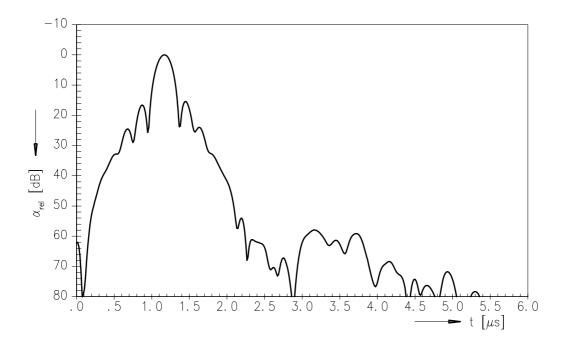
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Frequency response



Time domain response





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