

SAW Components

Data Sheet G 3956 M





SAW Components G 3956 M IF Filter for Video Applications 38,90 MHz

Data Sheet

Standard

■ B/G

Features

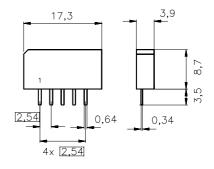
- TV IF filter with Nyquist slope and sound suppression
- High color carrier level
- Reduced group delay predistortion as compared with standard B/G, half
- Suitable for CENELEC EN 55020

Terminals

■ Tinned CuFe alloy

Plastic package SIP5K

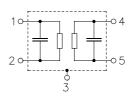




Dimensions in mm, approx. weight 1,0 g

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 3956 M	B39389-G3956-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



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38,90 MHz

Data Sheet

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		12,2	13,7	15,2	dB
following data							
Relative attenuation			$lpha_{rel}$				
Picture carrier	38,90	MHz		5,1	6,1	7,1	dB
Color carrier	34,47	MHz		0,0	1,0	2,0	dB
Sound carrier	33,40	MHz		26,0	39,0	_	dB
	33,15	MHz			25,0	_	dB
	33,90	MHz			7,0	_	dB
Adjacent picture carrier UHF	30,90	MHz		48,0	58,0	_	dB
VHF	31,90	MHz		48,0	56,0	_	dB
	31,40	MHz		44,0	52,0	_	dB
	32,40	MHz		48,0	60,0	_	dB
	40,15	MHz		42,0	51,0	_	dB
Adjacent sound carrier VHF	40,40	MHz		45,0	57,0	_	dB
UHF	41,40	MHz		44,0	57,0	_	dB
Lower sidelobe 25,00	31,90	MHz		42,0	49,0	_	dB
Upper sidelobe 40,40	45,00	MHz		40,0	46,0	_	dB
Reflected wave signal suppression	on						
1,3 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 1,0 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)							
•	36,90	MHz		_	-85	_	ns
	34,47			_	70	_	ns
Impedance at 37,40 MHz							
Input: $Z_{IN} = R_{IN} C_{IN}$				_	1,3 16,6	_	$k\Omega \parallel pF$
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$				_	1,4 4,5	_	kΩ pF
Temperature coefficient of frequency			TC_{f}	_	-72	_	ppm/K



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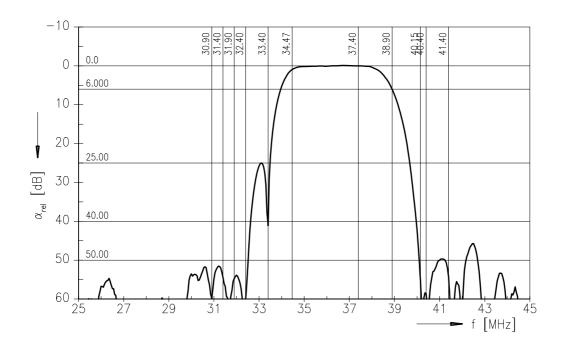
G 3956 M

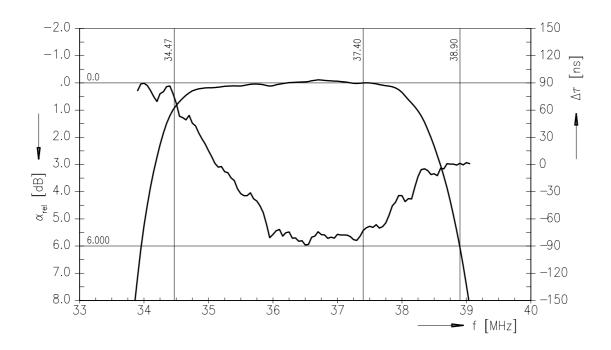
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Frequency response







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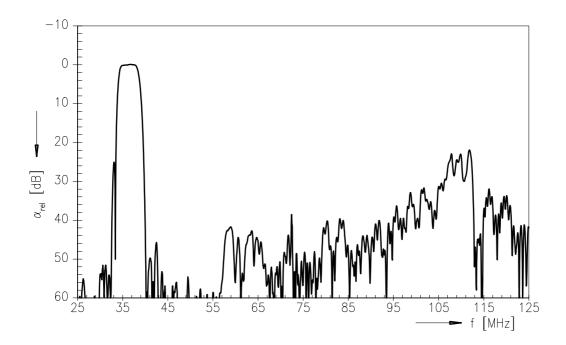
G 3956 M

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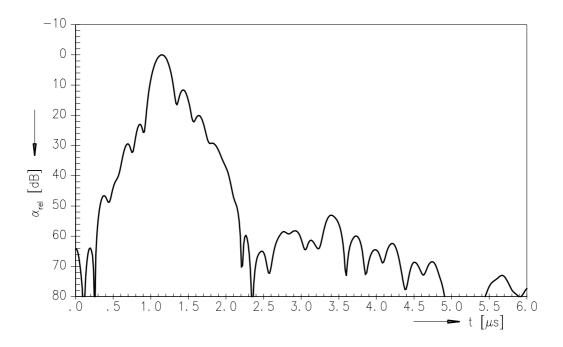
38,90 MHz

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Frequency response



Time domain response





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