

SAW Components

Data Sheet M 3960 M





SAW Components M 3960 M IF Filter for Video Applications 38,90 MHz

Data Sheet

Standard

■ M/N

Features

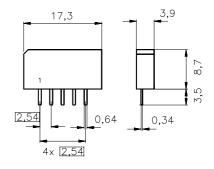
- TV IF filter with Nyquist slope and sound suppression
- Constant group delay

Terminals

■ Tinned CuFe alloy

Plastic package SIP5K

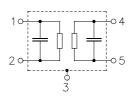




Dimensions in mm, approx. weight 1,0 g

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
M 3960 M	B39389-M3960-M100	C61157-A1-A15	F61074-V8067-Z000

Maximum ratings

Operable temperature range	T_{A}	-25/+65	°C	
Storage temperature range	$T_{\rm stg}$	-40/+85	°C	
DC voltage	V_{DC}	5	V	between any terminals
AC voltage	$V_{\sf pp}$	10	V	between any terminals



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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	37,40	0 MHz		11,3	12,8	14,3	dB
following data							
Relative attenuation			α_{rel}				
Picture carrier	38,90	0 MHz		4,6	5,3	6,0	dB
Color carrier	35,32	2 MHz		2,3	3,3	4,3	dB
Sound carrier	34,40	0 MHz		36,0	45,0	_	dB
Adjacent picture carrier	32,90	0 MHz		46,0	55,0	_	dB
Adjacent sound carrier	40,40	0 MHz		46,0	58,0	_	dB
Lower sidelobe	25,00 32,90	0 MHz		44,0	52,0	_	dB
Upper sidelobe	40,40 45,00	0 MHz		42,0	50,0		dB
Reflected wave signal suppression			42,0	53,0		dB	
1,2 μs 6,0 μs after main pulse (test pulse 250 ns,				42,0	33,0	_	uБ
carrier frequency 37,40	MHz)						
Feedthrough signal su	ppression						
1,2 μs 1,1 μs before r	nain pulse			50,0	56,0	_	dB
(test pulse 250 ns,							
carrier frequency 37,40	MHz)						
Group delay ripple (p-p	o)		Δau				
	35,32 38,90	0 MHz		_	35	60	ns
Impedance at 37,40 MH							
•	$Z_{IN} = R_{IN} \parallel 0$			_	1,1 16,2	_	k Ω \parallel pF
Output	$: Z_{OUT} = R_{OUT} \parallel 0$	C_{OUT}		_	1,6 4,1	_	$k\Omega pF$
Temperature coefficient of frequency			TC_{f}	_	-72	_	ppm/K



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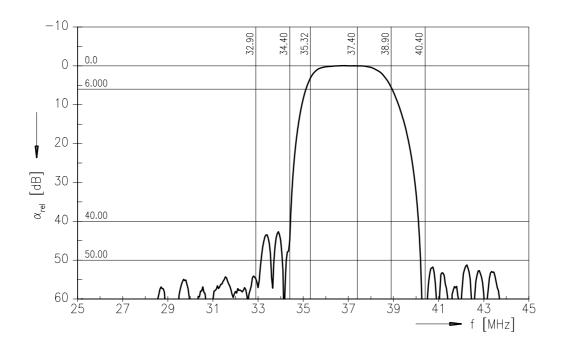
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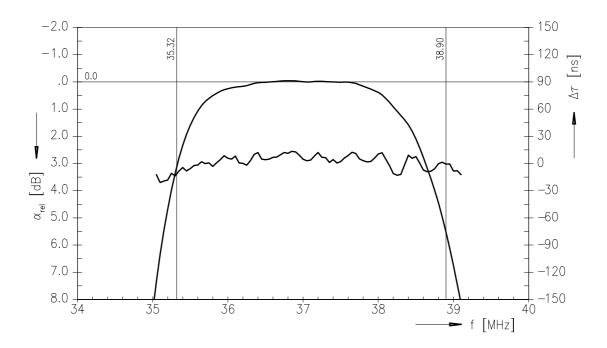
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Frequency response







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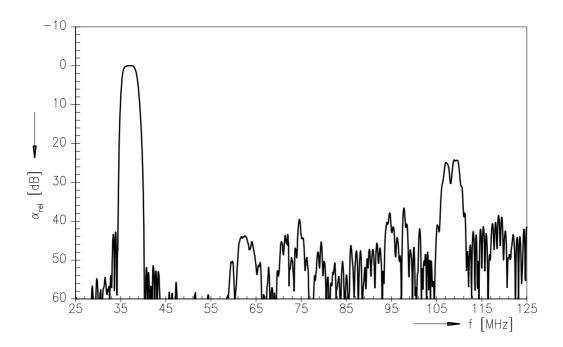
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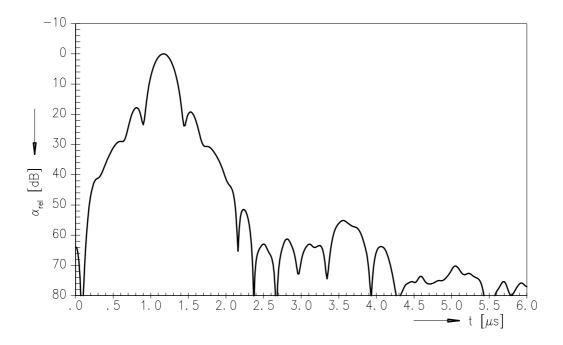
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Frequency response



Time domain response





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