

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

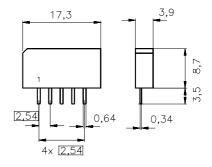
- with Nyquist slope and sound suppression
- Constant group delay

Terminals

■ Tinned CuFe alloy

Plastic package SIP5K

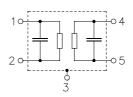




Dimensions in mm, approx. weight 1,0 g

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	$T_{ m stg}$	-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	MHz		11,3	12,8	14,3	dB
following data							
Relative attenuation			$lpha_{rel}$				
Picture carrier	38,90	MHz		4,6	5,3	6,0	dB
Color carrier	35,32	MHz		2,3	3,3	4,3	dB
Sound carrier	34,40	MHz		36,0	45,0	_	dB
Adjacent picture carrier	32,90	MHz		46,0	55,0	_	dB
Adjacent sound carrier	40,40	MHz		46,0	58,0	_	dB
Lower sidelobe	25,00 32,90	MHz		44,0	52,0	_	dB
Upper sidelobe	40,40 45,00	MHz		42,0	50,0	_	dB
Reflected wave signal suppression 1,2 μ s 6,0 μ s after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)			42,0	53,0	_	dB	
Feedthrough signal su 1,2 μs 1,1 μs before n (test pulse 250 ns, carrier frequency 37,40 l	nain pulse			50,0	56,0	_	dB
Group delay ripple (p-p) 35,32 38,90	MHz	Δτ	_	35	60	ns
Impedance at 37,40 MHz							
Input:	$Z_{\text{IN}} = R_{\text{IN}} \parallel C$	IN		_	1,1 16,2	_	$k\Omega \parallel pF$
	$Z_{\text{OUT}} = R_{\text{OUT}} \parallel C$			_	1,6 4,1	_	kΩ pF
Temperature coefficier	nt of frequency		TC_{f}	_	-72	_	ppm/K



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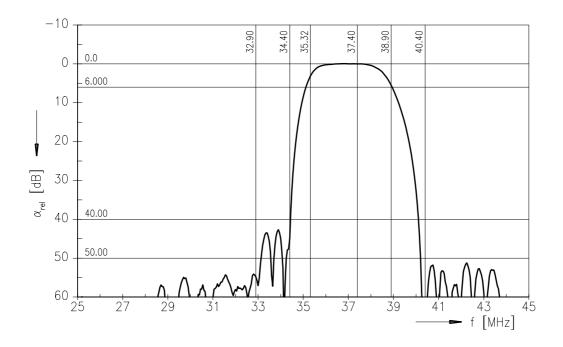
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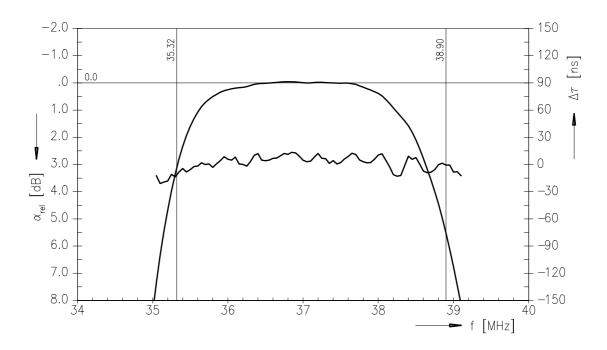
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Frequency response







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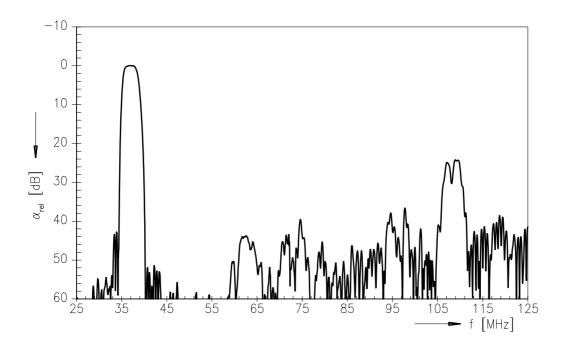
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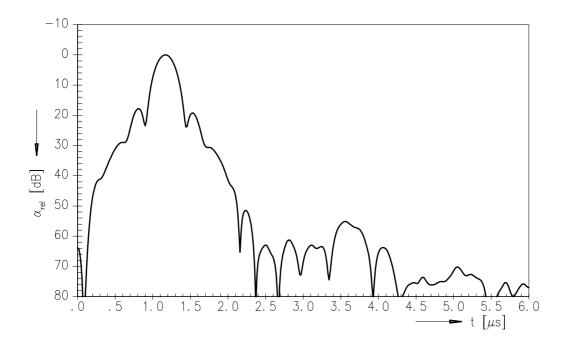
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Frequency response



Time domain response





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