

SAW Components

Data Sheet K 3959 D





SAW Components K 3959 D IF Filter for Video Applications 38,90 MHz

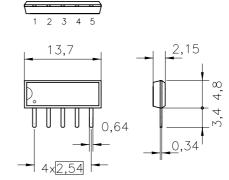
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Standard

- B/G
- D/K
- **I**

Features

- TV IF filter with Nyquist slope and sound suppression
- Reduced group delay predistortion as compared with standard B/G half
- Suitable for CENELEC EN 55020
- Standard IC package



Dimensions in mm, approx. weight 0,5 g

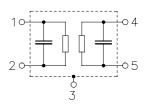
Duroplast package SIP5D

Terminals

■ Tinned CuFe alloy

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		
K 3959 D	B39389-K3959-D100	C61157-A1-A18	F61074-V8049-Z000		

Maximum ratings

Operable temperature range	T_{A}	-25/+80	°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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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		12,9	14,4	15,9	dB	
following data								
Relative attenuation				α_{rel}				
Picture carrier		38,90	MHz		5,1	6,1	7,1	dB
Color carrier		34,47	MHz		0,1	1,1	2,1	dB
Sound carrier 32,40 MH		MHz		50,0	60,0	_	dB	
		32,90	MHz		40,0	47,0	_	dB
		33,40	MHz		32,0	45,0	_	dB
Adjacent picture carrier		30,90	MHz		48,0	60,0	_	dB
		31,90	MHz		41,0	47,0	_	dB
		31,40	MHz		_	51,0	_	dB
Adjacent sound carrier		40,15	MHz		_	47,0	_	dB
		40,40	MHz		44,0	52,0	_	dB
		40,90	MHz		41,0	47,0	_	dB
		41,40	MHz		43,0	51,0	_	dB
Lower sidelobe	25,00	30,90	MHz		45,0	52,0	_	dB
Upper sidelobe	41,40	45,00	MHz		43,0	48,0	_	dB
Reflected wave signal suppression 1,3 μs 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 37,40 MHz)				42,0	52,0	_	dB	
Feedthrough signal supp 1,3 μs 1,2 μs before ma (test pulse 250 ns, carrier frequency 37,40 MI	ain pulse				50,0	56,0	_	dB
Group delay predistortion (reference frequency 38,96				Δτ				
		36,90	MHz		_	- 50	_	ns
		34,47	MHz		_	20	_	ns
Impedance at 37,40 MHz								
Input: $Z_{IN} = R_{IN} C_{IN}$				_	1,3 19,8	_	$k\Omega \parallel pF$	
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$					_	1,6 4,7	_	$k\Omega \parallel pF$
Temperature coefficient of frequency				TC_{f}		-72	_	ppm/K
						1		



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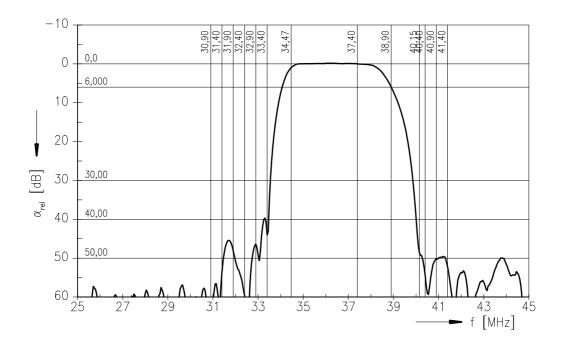
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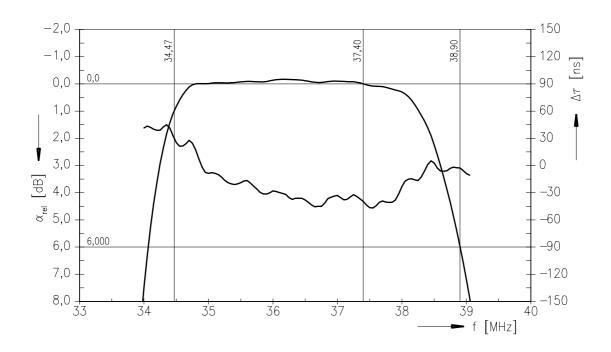
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Frequency response







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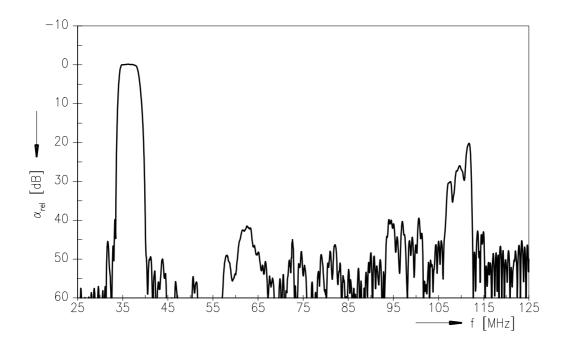
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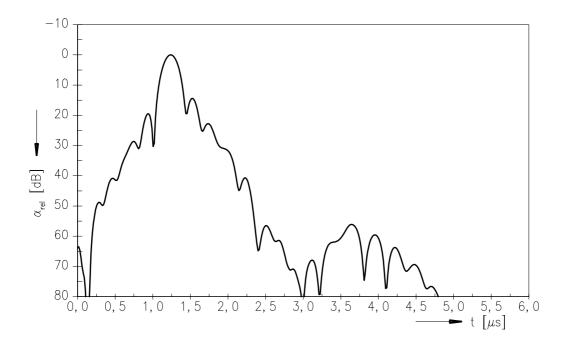
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Frequency response



Time domain response





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