

SAW Components

Data Sheet G 3963 M





SAW Components **IF Filter for Video Applications** 38,90 MHz

Data Sheet

Standard

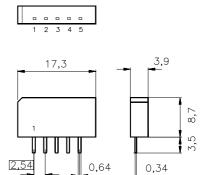
B/G

Features

- TV IF filter with Nyquist slope and sound suppression
- Constant group delay
- Suitable for CENELEC EN 55020

Terminals

■ Tinned CuFe alloy

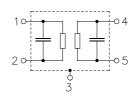


Dimensions in mm, approx. weight 1,0 g

4x 2,54

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 3963 M	B39389-G3963-M100	C61157-A1-A15	F61074-V8067-Z000	

Maximum ratings

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

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Plastic package SIP5K

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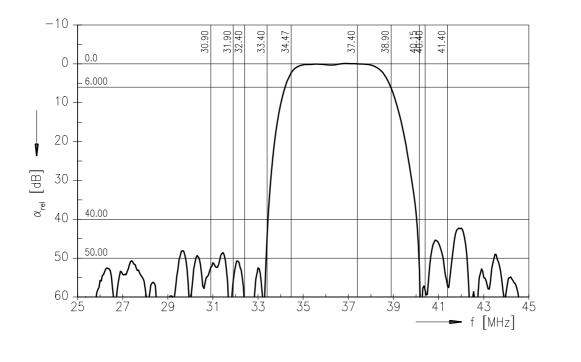


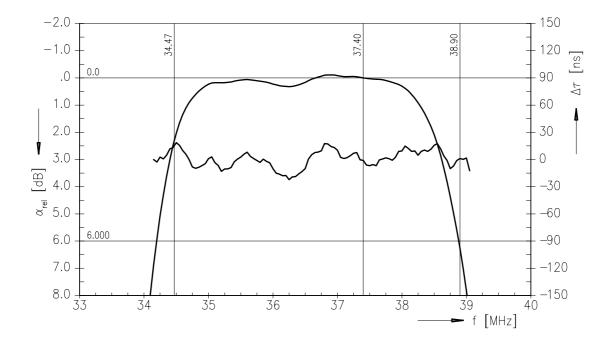
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Characteristics								
Reference temperature: Terminating source impe Terminating load impeda			$Z_{\rm S}$	= 25 °C = 50 Ω = 2 kΩ				
					min.	typ.	max.	
Insertion attenuation				α				
Reference level for the		37,40	MHz		13,0	14,5	16,0	dB
following data		,			,	,	,	
Relative attenuation				α_{rel}				
Picture carrier		38,90	MHz		4,6	5,6	6,6	dB
Color carrier		34,47	MHz		1,7	2,7	3,7	dB
Sound carrier		33,40	MHz		42,0	56,0	—	dB
		32,40	MHz		46,0	56,0	—	dB
Adjacent picture carrier	UHF	30,90	MHz		46,0	58,0	—	dB
	VHF	31,90	MHz		46,0	57,0	—	dB
		40,15	MHz		38,0	45,0	—	dB
Adjacent sound carrier	VHF	40,40	MHz		45,0	55,0	—	dB
	UHF	41,40	MHz		44,0	51,0	—	dB
Lower sidelobe	25,00	31,90	MHz		42,0	47,0	—	dB
Upper sidelobe	40,40	45,00	MHz		38,0	43,0	—	dB
Reflected wave signal 1,1 μs 6,0 μs after ma (test pulse 250 ns, carrier frequency 37,40 l	in pulse	on			44,0	54,0	_	dB
Feedthrough signal su 1,2 μs 1,05 μs before (test pulse 250 ns, carrier frequency 37,40 l	main pulse				50,0	56,0	_	dB
Group delay ripple (p-p)				Δτ		50	_	ns
Impedance at 37,40 MF								
Input: $Z_{IN} = R_{IN} C_{IN}$						1,7 14,1	—	kΩ pl
Output:	$Z_{OUT} = R_C$	$OUT \parallel C_{c}$	JUT		—	1,3 5,5	—	kΩ pl
Temperature coefficier	nt of freque	nev		TC _f		-72		ppm/K



Data Sheet

Frequency response





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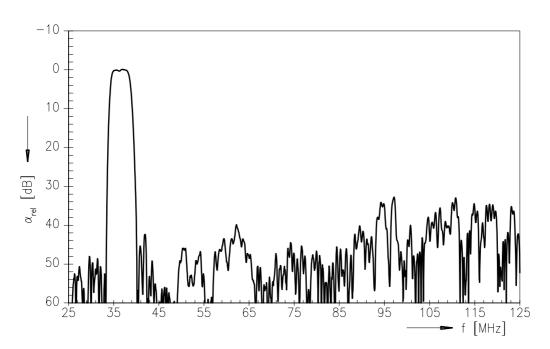




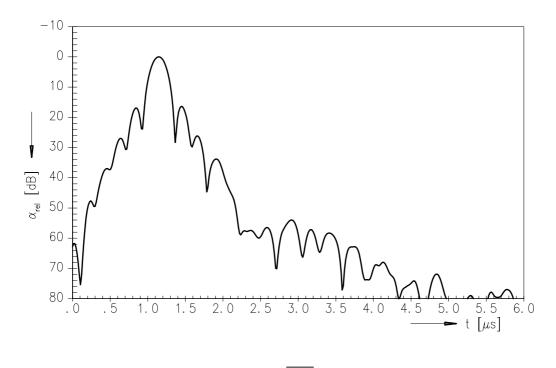
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Frequency response



Time domain response



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