

SAW Components

Data Sheet G 4960 M





SAW Components G 4960 M IF Filter for Video Applications 38,90 MHz

Data Sheet

Standard

■ B/G

Features

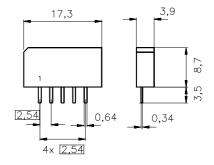
- IF filter for antenna converters
- Full transmission of vestigial sideband and sound carrier
- Group delay predistortion for transmitters

Terminals

■ Tinned CuFe alloy

Plastic package SIP5K

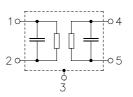




Dimensions in mm, approx. weight 1,0 g

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 4960 M	B39389-G4960-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 following data		38,90	MHz		18,1	19,6	21,1	dB
Relative attenuation				α_{rel}				
		39,65	MHz		2,7	3,9	5,1	dB
Sound carrier		33,40	MHz		-1,2	-0,2	0,8	dB
2nd sound carrier		33,15	MHz		-1,4	-0,4	0,6	dB
Adjacent picture carrier		31,90	MHz		34,0	49,0	_	dB
Adjacent sound carrier		40,40	MHz		32,0	42,0	_	dB
		44,40	MHz		40,0	49,0	_	dB
Lower sidelobe	25,00	30,40	MHz		40,0	49,0	_	dB
	30,40	31,90	MHz		32,0	42,0	_	dB
Upper sidelobe	40,40	45,00	MHz		32,0	38,0	<u> </u>	dB
Reflected wave signal	suppressio	n						
1,3 μs 6,0 μs after ma	in pulse				42,0	52,0	_	dB
(test pulse 250 ns,								
carrier frequency 38,90	MHz)							
Feedthrough signal su	ppression							
1,4 μs 1,3 μs before n	nain pulse				50,0	56,0	_	dB
(test pulse 250 ns,								
carrier frequency 38,90	MHz)							
Group delay predistort	ion			Δτ				
(reference frequency 38								
		36,90	MHz		_	95	_	ns
		34,47	MHz		_	-100	_	ns
Impedance at 38,90 MF	łz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				_	1,6 15,2	_	$k\Omega \parallel pF$	
Output:	$Z_{\text{OUT}} = R_{\text{O}}$	C_0	DUT		_	3,6 3,6	_	kΩ pF
Temperature coefficient of frequency			TC _f	_	-72	_	ppm/K	



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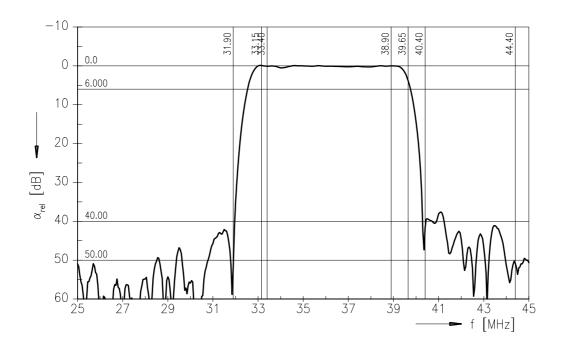
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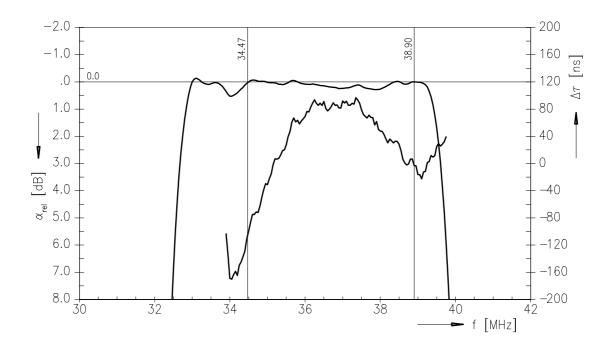
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Frequency response







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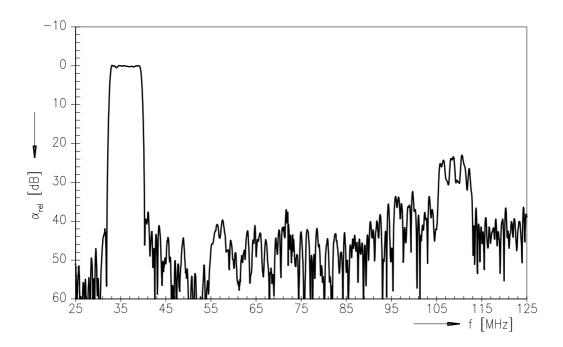
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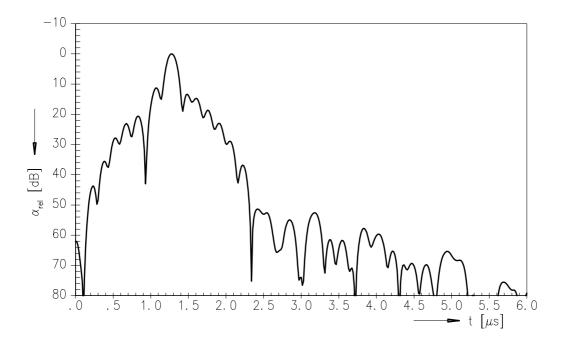
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Frequency response



Time domain response





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Published by EPCOS AG Surface Acoustic Wave Components Division, SAW CE MM PD P.O. Box 80 17 09, D-81617 München

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