

SAW Components

Data Sheet G 4963 D





SAW ComponentsG 4963 DVestigial Sideband Filter38,90 MHz

Data Sheet

Standard

B/G

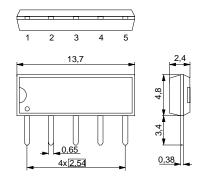
Features

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

Terminals

Tinned CuFe alloy

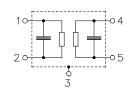
Duroplast package SIP5D



Dimensions in mm, approx. weight 0,5 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 4963 D	B39389-G4963-N201	C61157-A1-A21	F61074-V8049-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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Characteristics							
Reference temperature: $T_A = 25 \degree C$ Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 2 k\Omega \parallel 3 pF$							
				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the	38,90	MHz		16,0	18,5	20,0	dB
following data							
Relative attenuation			α_{rel}				
	39,65	MHz		3,2	4,4	5,6	dB
Sound carrier	33,40	MHz		-1,0	0,0	1,0	dB
2nd sound carrier	33,15	MHz		-1,1	-0,1	0,9	dB
Adjacent picture carrier	31,90	MHz		38,0	57,0	—	dB

insertion attenuation			0.				
Reference level for the	38,9	0 MHz		16,0	18,5	20,0	dB
following data							
Deletive etterwetien							
Relative attenuation	20.0		α_{rel}			F 0	
Cound corrige		5 MHz		3,2	4,4	5,6	dB
Sound carrier		0 MHz		-1,0	0,0	1,0	dB
2nd sound carrier		5 MHz		-1,1	-0,1	0,9	dB
Adjacent picture carrier	•	0 MHz		38,0	57,0		dB
Adjacent sound carrier		0 MHz		40,0	51,0	_	dB
Laura aidalah a		0 MHz		42,0	51,0		dB
Lower sidelobe	25,00 30,4			39,0	45,0	_	dB
		0 MHz		37,0	42,0		dB
Upper sidelobe	40,40 45,0	0 MHz		35,0	40,0		dB
Reflected wave signal	suppression						
1,3 μs 6,0 μs after ma				42,0	52,0		dB
(test pulse 250 ns,				,0	02,0		u.D
carrier frequency 38,90	MHz)						
Feedthrough signal su	ppression						
1,4 μs 1,3 μs before r	main pulse			50,0	56,0	_	dB
(test pulse 250 ns,							
carrier frequency 38,90	MHz)						
Group delay predistor	tion		Δτ				
(reference frequency 38							
(0 MHz		_	90	_	ns
		7 MHz		_	-200	_	ns
Impedance at 38,90 MI	Ηz						
Input:	$Z_{IN} = R_{IN} \parallel$	$C_{\rm IN}$		_	1,4 18,4	—	kΩ pF
Output	$: Z_{OUT} = R_{OUT} \parallel$	C _{OUT}		_	4,5 4,1	_	kΩ pF
Temperature coefficie	nt of frequency		TC _f	—	-72	—	ppm/K
-				1	1	1	1



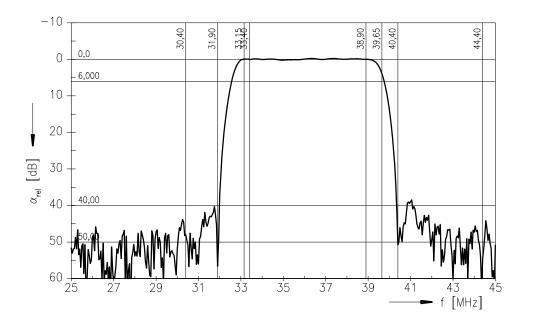
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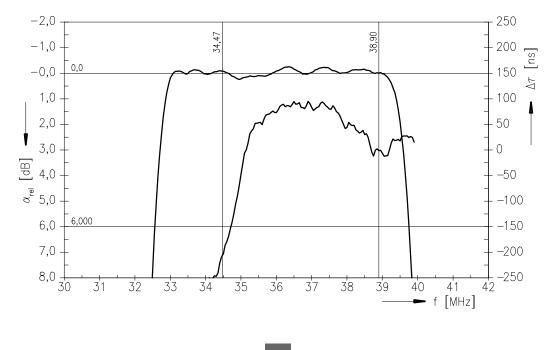


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Data Sheet

Frequency response





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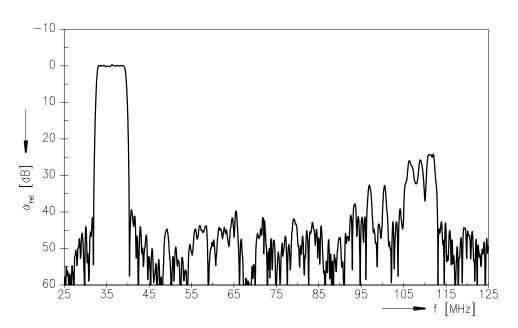
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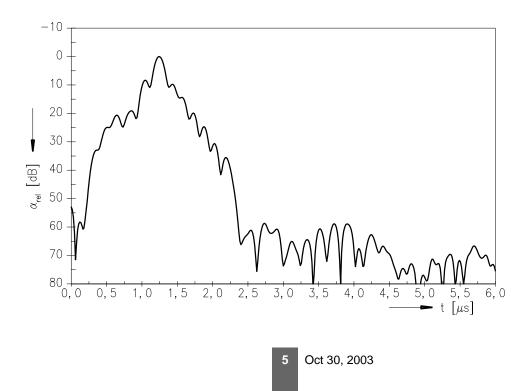
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Frequency response



Time domain response





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