

SAW Components

Data Sheet X 6966 M





SAW Components	X 6966 M
Bandpass Filter	36,125 MHz

Data Sheet

Plastic package SIP5K

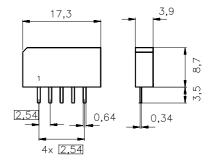
Features

■ IF filter for digital cable TV

Terminals

■ Tinned CuFe alloy

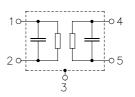




Dimensions in mm, approx. weight 1,0 g

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		
X 6966 M	B39361-X6966-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}	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	36,125 MHz		18,8	20,3	21,8	dB
following data						
Amplitude ripple		$\Delta \alpha$				
	32,65 39,60 MHz		0,0	0,5	1,0	dB
Pass bandwith		_				
α _{rel} ≤1 dB		B_{1dB}	_	7,5	_	MHz
$\alpha_{\text{rel}} \leq 3 \text{ dB}$		B_{3dB}	_	8,0	_	MHz
α _{rel} ≤30 dB		B _{30dB}		9,4	_	MHz
Relative attenuation		α_{rel}				
	32,32 MHz		-0,1	0,9	1,9	dB
	39,93 MHz		0,4	1,4	2,4	dB
	32,13 MHz		1,5	2,7	3,9	dB
	40,13 MHz		2,3	3,5	4,7	dB
	31,25 MHz		37,0	51,0	_	dB
	47,25 MHz		45,0	60,0	_	dB
Lower sidelobe	25,00 31,25 MHz		35,0	41,0	<u> </u>	dB
Upper sidelobe	40,90 50,00 MHz		32,0	39,0	_	dB
Reflected wave signal	suppression					
1,0 μs 6,0 μs after ma	• •		42,0	52,0	_	dB
(test pulse 250 ns,	r		, -	, ,		
carrier frequency 36,125						
Foodthaman balancel an						
Feedthrough signal su	• •		500	56.0		٩D
1,2 μs 1,1 μs before r (test pulse 250 ns,	nain puise		50,0	56,0	_	dB
carrier frequency 36,125						
carrier frequency 30, 120) IVITIZ)					
Group delay ripple (p-p	o)	Δau				
Aperture 62,5 kHz 32,32 39,93 MHz			_	40	_	ns
Impedance at 36,125 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			_	2,3 14,7	_	kΩ pF
Output: $Z_{OUT} = R_{OUT} C_{OUT}$			-	2,4 3,9	<u> </u>	$k\Omega \parallel pF$
Temperature coefficient of frequency			_	-72	_	ppm/K

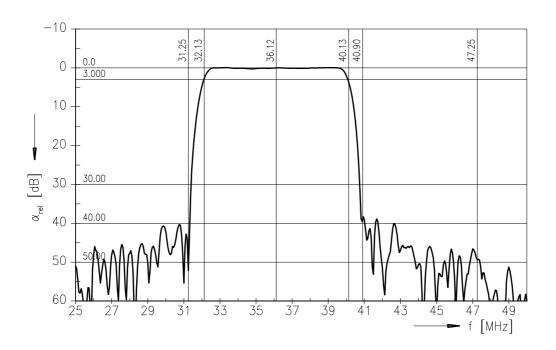


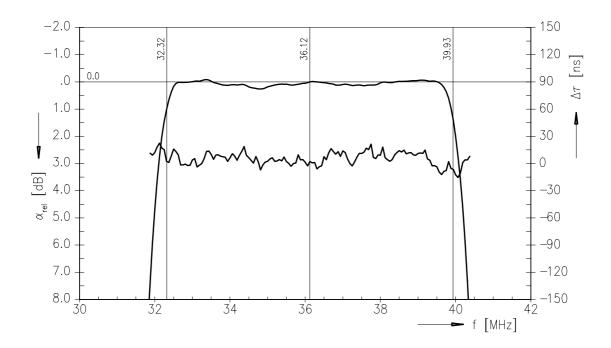
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Frequency response





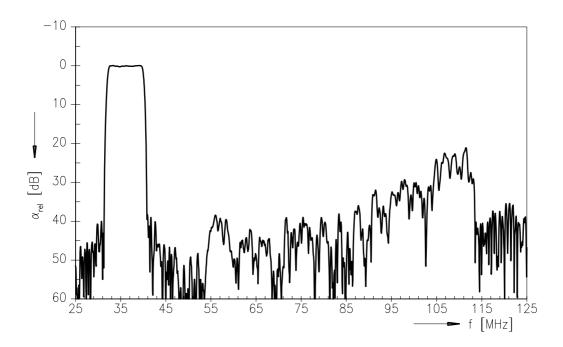


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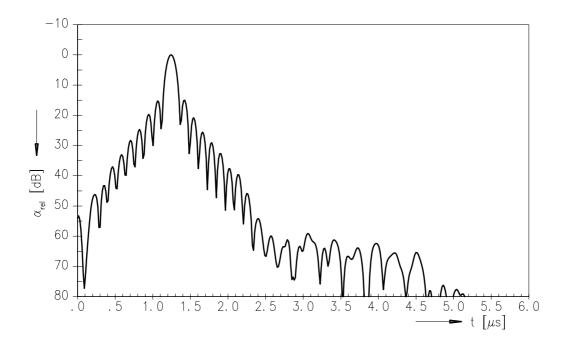
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Frequency response



Time domain response





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