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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





SAW Components

Data Sheet K 2971 M





SAW ComponentsK 2971 MIF Filter for Intercarrier Applications38,90 MHz

Data Sheet

Standard

- B/G
- D/K

Features

Terminals

38,90 MHz

Plastic package **SIP5K**

■ Tinned CuFe alloy

MHz and 33,40 MHz

Group delay predistortion

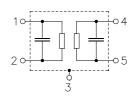
TV IF filter with Nyquist slope and sound shelf
 Broad sound shelf for sound carriers at 32,40

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
K 2971 M	B39389-K2971-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

2

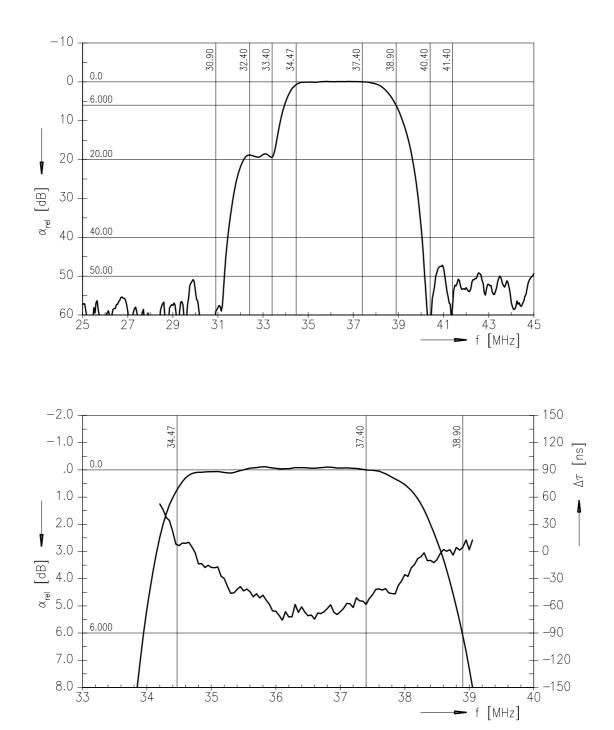


SAW Components							K	2971 M
IF Filter for Intercarrier Applications						38,90 MHz		
Data Sheet								
Characteristics								
Reference temperature Terminating source im Terminating load impe	pedance:		$Z_{\rm S}$	= 25 °C = 50 Ω = 2 kΩ				
					min.	typ.	max.	
Insertion attenuation				α				
Reference level for the following data		37,40	MHz		14,8	16,3	17,8	dB
Relative attenuation				$\alpha_{ m rel}$				
Picture carrier		38,90	MHz	101	4,8	5,8	6,8	dB
Color carrier		34,47	MHz		-0,3	0,7	1,7	dB
Sound carrier		32,40	MHz		17,1	18,6	20,1	dB
		33,40	MHz		17,7	19,2	_	dB
Adjacent picture carrie	r	30,90	MHz		46,0	56,0	_	dB
Adjacent sound carrier		40,40	MHz		43,0	52,0	—	dB
		41,40	MHz		42,0	51,0	—	dB
Lower sidelobe	25,00	30,90	MHz		44,0	51,0	—	dB
Upper sidelobe	40,40	45,00	MHz		40,0	46,0	—	dB
Reflected wave signa		n			40.0	50.0		
1,2 μs 6,0 μs after n	nain puise				42,0	53,0	_	dB
(test pulse 250 ns, carrier frequency 37,40) MHz)							
Feedthrough signal s 1,2 μs 1,1 μs before (test pulse 250 ns, carrier frequency 37,40	main pulse				50,0	56,0	_	dB
Group delay predisto (reference frequency 3				$\Delta \tau$				
		36,50	MHz		_	-70	_	ns
		34,47	MHz			20		ns
Impedance at 37,40 M	1Hz							
Input:	$Z_{\rm IN} = R_{\rm IN}$, ∥ <i>C</i> i	N			2,0 12,1	_	k $\Omega \parallel pF$
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$			_	3,0 2,8	—	kΩ pF		
Temperature coefficient of frequency TC _f				-72	_	ppm/K		



Data Sheet

Frequency response





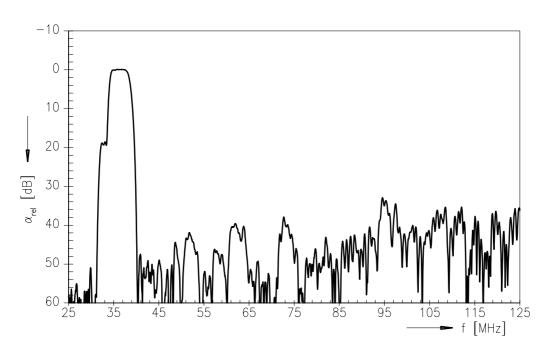
4



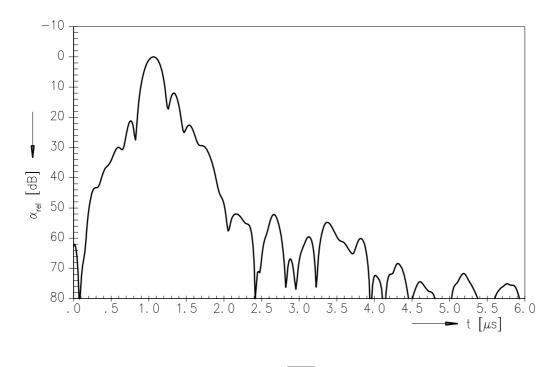
SAW Components	K 2971 M
IF Filter for Intercarrier Applications	38,90 MHz

Data Sheet

Frequency response



Time domain response



Mar 31, 2006

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SAW Components	K 2971 M
IF Filter for Intercarrier Applications	38,90 MHz

Data Sheet

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