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Data Sheet K 7257 M

Data Sheet





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Plastic package SIP5K

IF Filter for Video / Multistandard Applications 33,90 MHz and 38,90 MHz

Data Sheet

Standard

- B/G
- L/L'
- M/N

Features

Terminals

- TV IF filter switchable from B/G,L/L' mode to M/N mode
- B/G,L/L' mode with Nyquist slope and sound suppression
- Highly reduced group delay predistortion as compared to standard B/G, half
- M/N mode with Nyquist slope and sound suppression
- Constant group delay





Dimensions in mm, approx. weight 1,0 g

Pin configuration

Tinned CuFe alloy

- 1 Input
- 2 Switching input
- 3 Chip carrier ground
- 4, 5 Output



Туре	Ordering code	Marking and package according to	Packing according to
K 7257 M	B39389-K7257-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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Data Sheet								
Characteristics in B/G. L/L' mode (switching input pin 2 connected to ground)								
Reference temperatur	e:		T _A	= 25 °C	C	-		
Terminating source in	npedance:		$Z_{\rm S}$	= 50 Ω	1			
Terminating load impe	edance:		Z_{L}	= 2 kΩ	3 pF			
					min.	typ.	max.	
Insertion attenuation	1			α				
Reference level for the	е	37,40	MHz		15,1	16,6	18,1	dB
following data								
Relative attenuation				α_{rel}				
Picture carrier		38,90	MHz		5,0	6,0	7,0	dB
Picture carrier		33,90	MHz		_	7,9	_	dB
Color carrier		34,47	MHz		-0,5	0,5	1,5	dB
Sound carrier		33,40	MHz		28,0	43,0	—	dB
NICAM sound carrier		33,05	MHz		_	36,0	_	dB
Adjacent picture carrie	ər	30,90	MHz		45,0	60,0	_	dB
		31,90	MHz		47,0	60,0	—	dB
		32,40	MHz		45,0	60,0	—	dB
		40,15	MHz		39,0	52,0	_	dB
Adjacent sound carrie	r	40,40	MHz		40,0	53,0	—	dB
		41,40	MHz		40,0	50,0	_	dB
Lower sidelobe	25,00	31,90	MHz		40,0	46,0		dB
Upper sidelobe	40,40	45,00	MHz		36,0	43,0	—	dB
Reflected wave signal suppression								
1,2 μs 6,0 μs after ι	main pulse				42,0	52,0	_	dB
(test pulse 250 ns,								
carrier frequency 37,4	0 MHz)							
Foodthrough signal	ounnrocoion							
1 3 us 1 2 us bofor					50.0	56.0		dB
$(1,5 \ \mu 5 \dots 1,2 \ \mu 5 \ below$					50,0	50,0	_	UD
carrier frequency 37 A								
	0 111 12)							
Group delay predist	ortion			$\Delta \tau$				ns
(reference frequency	38,90 MHz)							
		36,90	MHz		_	-50		ns
		34,47	MHz		-	50	_	ns
Impedance at 37,40 I	MHz							
Input	$Z_{\rm IN} = R_{\rm I}$	_N ∥ <i>C</i> I	N		_	1,2 18,6	_	kΩ pF
Outp	ut: $Z_{OUT} = R_0$	_{ОUT} С	JUT		_	1,8 4,2	_	kΩ pF
Temperature coeffic	ient of freque	encv		TCf		-72		ppm/K
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Data Sheet						
Characteristics in M/N mode (switching input	Characteristics in M/N mode (switching input pin 2 connected to pin 1)					
Reference temperature: T_A	= 25 °C)				
Terminating source impedance: Z_{S}	= 50 Ω					
Terminating load impedance: Z_{L}	= 2 kΩ	3 pF				
		min.	typ.	max.		
Insertion attenuation	α					
Reference level for the 37,40 MHz		14,8	16,3	17,8	dB	
following data						
Relative attenuation	αrol					
Picture carrier 38.90 MHz	ener	5.4	6.4	7.4	dB	
Color carrier 35.32 MHz		1.6	2.6	3.6	-	
Sound carrier 34,40 MHz		28,0	39.0		dB	
Adjacent picture carrier 32,90 MHz		37,0	45,0	_	dB	
Adjacent sound carrier 40,40 MHz		40,0	48,0	_	dB	
Lower sidelobe 25,00 32,90 MHz		36,0	44,0	_	dB	
Upper sidelobe 40,40 45,00 MHz		32,0	38,0	—	dB	
Reflected wave signal suppression						
1,3 μs 6,0 μs atter main pulse (test pulse 250 ns,		42,0	52,0	—	dB	
carrier frequency 37,40 MHz)						
Feedthrough signal suppression						
1,3 μs 1,2 μs before main pulse		—	50,0	—	dB	
(test pulse 250 ns,						
carrier frequency 37,40 MHz)						
Group delay ripple (p-p)	Δτ					
35,32 38,90 MHz			50	_	ns	
Impedance at 37,40 MHz						
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,3 19,5	—	k $\Omega \parallel pF$	
Output: Z _{OUT} = R _{OUT} C _{OUT}			1,8 4,2		kΩ pF	
Temperature coefficient of frequency	TC _f		-72		ppm/K	



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Frequency response in B/G, L/L' mode

IF Filter for Video / Multistandard Applications



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Frequency response in B/G, L/L' mode



Time domain response in B/G, L/L' mode



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Frequency response in M/N mode





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Frequency response in M/N mode



Time domain response in M/N mode





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33,90 MHz and 38,90 MHz

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