

SAW Components

Data Sheet K 3567 D





SAW Components

IF Filter for Quasi/Split Sound Applications

Data Sheet

Standard

- B/G
- D/K
- . I

Features

- TV IF filter for quasi/split sound applications (separate picture and sound channel)
- Picture channel with Nyquist slope and sound suppression, symmetrical output
- Customized group delay predistortion
- Sound channel with pass band for sound carriers between 31,5 MHz and 32,5 MHz

Terminals

Tinned CuFe alloy

Duroplast package SIP5D

K 3567 D

38,00 MHz



Dimensions in mm, approx. weight 0,5 g

Pin configuration

- Input
 Chip carrier ground
- 3 Output sound
- 4 Output sound
- 5 Output picture



Туре	Ordering code	Marking and package according to	Packing according to	
K 3567 D	B39380-K3567-N301	C61157-A1-A21	F61074-V8049-Z000	

Maximum ratings

Operating 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



SAW Components					K	K 3567 D	
IF Filter for Quasi/Split Sound Applications						38,0	00 MHz
Data Sheet Characteristics of pictu	ure channel						
Reference temperature: $T_A = 25 \degree C$							
Terminating source impe	edance:	Z _S Z.	$= 50 \Omega$	ll 3 nF			
reminating load impeda		<u>~</u> L	- 2 132	ΠΟΡΙ			
				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the	36,50	MHz		16,8	18,3	19,8	dB
following data							
Relative attenuation			αrol				
Picture carrier	38,00	MHz	e lei	5,5	6,5	7,5	dB
Color carrier	33,57	MHz		-0,3	0,7	1,7	dB
Sound carrier	31,50	MHz		27,0	32,0	—	dB
	32,50	MHz		24,0	30,0	—	dB
Adjacent picture carrier	30,00	MHz		38,0	50,0	—	dB
	31,00	MHz		30,0	35,0	—	dB
Adjacent sound carrier	39,50	MHz		37,0	48,0	—	dB
	40,00	MHz		37,0	46,0	—	dB
Lower sidelobe	25,00 30,00	MHz		38,0	46,0	—	dB
Upper sidelobe	40,00 45,00	MHZ		37,0	43,0	—	dB
Reflected wave signal	suppression						
1,5 μs 6,0 μs after ma	in pulse			42,0	50,0	—	dB
(test pulse 250 ns, carrie	r frequency 36,50	MHz)					
Feedthrough signal su	noression						
1.3 us 1.2 us before m	nain pulse			_	50.0		dB
(test pulse 250 ns, carrie	er frequency 36,50	MHz)			,-		
Group delay predistort	ion		$\Delta \tau$				
(reference frequency 38,	00 MHz)						
	37,20			_	30	—	ns
	36,40			_	15		ns
	33.57	MHz		_	-15		ne
Impedance at 36,50 MH					1011404		ko ll pE
Input:	$Z_{\rm IN} = R_{\rm IN} C_{\rm I}$	N			ו,פ∥וס, ו 2⊿∥ כס		
Output.		JUT			2,71 3,8		куз∥р⊢
Temperature coefficien	t of frequency		TC _f		-72		ppm/K



SAW Components					K 3567 D		
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Data Sheet							
Characteristics of sound channel							
Reference temperature: T_A	= 25 °C	2					
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 31,50 MHz		14,9	16,4	17,9	dB		
following data							
Relative attenuation	α_{rel}						
Sound carrier 32,50 MHz		0,0	1,0	2,0	dB		
Picture carrier 38,00 MHz		38,0	52,0	_	dB		
Color carrier 33,57 MHz		22,0	36,0	_	dB		
Adjacent picture carrier 30,00 MHz		28,0	35,0	_	dB		
31,00 MHz		_	5,1	—	dB		
Adjacent sound carrier 39,50 MHz		36,0	48,0	—	dB		
40,00 MHz		36,0	50,0	_	dB		
Lower sidelobe 25,00 30,00 MHz		26,0	34,0	_	dB		
Upper sidelobe 38,00 45,00 MHz		32,0	42,0	—	dB		
Impedance at 31,50 MHz							
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$			1,3 21,3	—	$k\Omega \parallel pF$		
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	3,9 3,5	_	kΩ pF		
Temperature coefficient of frequency	TC _f	<u> </u>	-72		ppm/K		



SAW Components	K 3567 D
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Frequency response of picture channel





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Frequency response of picture channel



Time domain response of picture channel



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Frequency response of sound channel



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