

SAW Components

Data Sheet K 7262 D





SAW Components	K 7262 D
IF Filter for Video / Multistandard Applications	38,00 MHz

Standard

- B/G
- D/K
- M/N

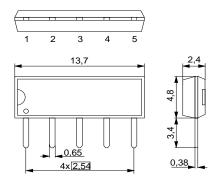
Features

- TV IF filter switchable from M/N mode to B/G, D/K mode
- M/N mode with Nyquist slope and sound suppression
- Customized group delay predistortion
- B/G, D/K mode with Nyquist slope and sound suppression
- Reduced group delay predistortion as compared with standard B/G, half
- Standard IC package

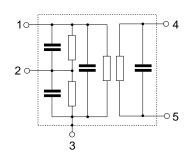
Terminals

Tinned CuFe alloy

Duroplast package **SIP5D**



Dimensions in mm, approx. weight 0,5 g



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

Туре	Ordering code	Marking and package according to	Packing according to
K 7262 D	B39380-K7262-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 in B/G, D/K mode (switching pin 2 connected to ground)

Reference temperature:	$T_{A} = 25 \degree C$
Terminating source impedance:	$Z_{\rm S}$ = 50 Ω
Terminating load impedance:	$Z_{L} = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Terminating load impeda	ince:	Z_{L}	= 2 kΩ	3 pF			
Reference level for the $36,50$ MHz $14,4$ $15,9$ $17,4$ dB rel α_{rel}					min.	typ.	max.	
following data α Image: colspan="2">Color carrier 38,00 MHz 4,7 5,7 6,7 dB Picture carrier 38,00 MHz 4,7 5,7 6,7 dB Color carrier 33,57 MHz 0,8 1,8 2,8 dB Sound carrier 32,55 MHz — 40,0 — dB 32,55 MHz — 40,0 — dB 32,55 MHz — 40,0 — dB Adjacent picture carrier 30,00 MHz 44,0 53,0 — dB Adjacent picture carrier 39,50 MHz 44,0 53,0 — dB Adjacent picture carrier 39,00 MHz 44,0 56,0 — dB <th< td=""><td>Insertion attenuation</td><td></td><td></td><td>α</td><td></td><td></td><td></td><td></td></th<>	Insertion attenuation			α				
Relative attenuation α_{rel} α_{rel} 4,7 5,7 6,7 dB Picture carrier 33,67 MHz 0,8 1,8 2,8 dB Sound carrier 32,50 MHz 35,0 44,0	Reference level for the	36,5	0 MHz		14,4	15,9	17,4	dB
Picture carrier 38,00 MHz 4,7 5,7 6,7 dB Color carrier 33,57 MHz 0,8 1,8 2,8 dB Sound carrier 32,50 MHz 35,0 44,0 dB 32,55 MHz 40,0 dB 32,00 MHz 35,0 41,0 dB 32,00 MHz 45,0 53,0 dB Adjacent picture carrier 30,00 MHz 44,0 53,0 dB Adjacent sound carrier 39,50 MHz 44,0 56,0 dB 40,00 MHz 44,0 56,0 dB 40,50 M dB Lower sidelobe 25,00 30,00 MHz 44,0 52,0 dB Lower sidelobe 39,50 45,00 MHz 39,0 44,0 dB Reflected wave signal suppression 42,0 52,0 dB	following data							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Relative attenuation			α_{rel}				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Picture carrier	38,0	0 MHz		4,7	5,7	6,7	dB
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Color carrier	33,5	7 MHz		0,8	1,8	2,8	dB
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Sound carrier	32,5	0 MHz		35,0	44,0	—	dB
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		32,5	5 MHz		—	40,0	—	dB
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		32,0	0 MHz		35,0	41,0	—	dB
Adjacent sound carrier $31,00 \text{ MHz}$ $43,0 + 49,0 + - 48,0 + 64B$ dB Adjacent sound carrier $39,50 \text{ MHz} + 44,0 + 53,0 + - 48,0 + - 6BB$ dB Lower sidelobe $25,00 + - 30,00 \text{ MHz} + 44,0 + 52,0 + - 6BB$ dB Lower sidelobe $39,50 + - 30,00 \text{ MHz} + 44,0 + 52,0 + - 6BB$ dB Upper sidelobe $39,50 + - 30,00 \text{ MHz} + 44,0 + 52,0 + - 6BB$ dB Reflected wave signal suppression $39,50 + - 48,0 + - 6BB$ dB 1,2 µs 6,0 µs after main pulse (test pulse 250 ns, carrier frequency 36,50 MHz) $42,0 + 52,0 + - 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, 650, -$		31,5	0 MHz		45,0	53,0	—	dB
Adjacent sound carrier 39,50 MHz 44,0 $53,0$ dB 40,00 MHz 44,0 $56,0$ dB Lower sidelobe 25,00 $30,00$ MHz $44,0$ $52,0$ dB Lower sidelobe $25,00$ $30,00$ MHz $44,0$ $52,0$ dB Upper sidelobe $39,50$ $45,00$ MHz $39,0$ $44,0$ dB Reflected wave signal suppression 1,2 µs 6,0 µs after main pulse 42,0 $52,0$ dB (test pulse 250 ns, carrier frequency $36,50$ MHz) $56,0$ dB Feedthrough signal suppression $56,0$ dB $1,2 µs 1,1 µs before main pulse 56,0 dB (test pulse 250 ns, carrier frequency 36,50 MHz) \Delta \tau 56,0 dB Group delay predistortion (reference frequency 38,00 MHz) \Delta \tau -50 ns 33,57 MHz $	Adjacent picture carrier	30,0	0 MHz		44,0	53,0	—	dB
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		31,0	0 MHz		43,0	49,0	—	dB
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Adjacent sound carrier	39,5	0 MHz		44,0	53,0	—	dB
Lower sidelobe 25,00 30,00 MHz 44,0 52,0 dB Upper sidelobe 39,50 45,00 MHz 39,0 44,0 dB Reflected wave signal suppression 1,2 μ s 6,0 μ s after main pulse 42,0 52,0 dB (test pulse 250 ns, carrier frequency 36,50 MHz) 52,0 dB Feedthrough signal suppression 56,0 dB 1,2 μ s 1,1 μ s before main pulse 56,0 dB (test pulse 250 ns, carrier frequency 36,50 MHz) 56,0 dB Group delay predistortion (reference frequency 36,50 MHz) $\Delta \tau$ -50 ns 33,57 MHz 70 ns ns Impedance at 36,50 MHz 0 ns		40,0	0 MHz		44,0	56,0	—	dB
Upper sidelobe $39,50$ $45,00$ MHz $39,0$ $44,0$ dB Reflected wave signal suppression $1,2 \ \mu s \dots 6,0 \ \mu s$ after main pulse $42,0$ $52,0$ dB (test pulse 250 ns, carrier frequency $36,50$ MHz) $56,0$ dB Feedthrough signal suppression $56,0$ dB $1,2 \ \mu s \dots 1,1 \ \mu s$ before main pulse $56,0$ dB (test pulse $250 \ ns, carrier frequency 36,50 \ MHz) 56,0 dB Group delay predistortion (reference frequency 38,00 \ MHz) \Delta \tau -50 ns 36,00 \ MHz 70 ns ns Impedance at 36,50 \ MHz 70 ns $		40,5	0 MHz		—	48,0	—	dB
Reflected wave signal suppression $1,2 \ \mu s \dots 6,0 \ \mu s$ after main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)42,052,0dBFeedthrough signal suppression $1,2 \ \mu s \dots 1,1 \ \mu s$ before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)56,0dBGroup delay predistortion (reference frequency 38,00 MHz) $\Delta \tau$ $36,00 \ MHz$ 56,0dBImpedance at 36,50 MHzImpedance at 36,50 MHz $\Lambda \tau$ ns	Lower sidelobe	25,00 30,0	0 MHz		44,0	52,0	—	dB
$1,2 \ \mu s \dots 6,0 \ \mu s$ after main pulse $42,0$ $52,0$ $$ dB (test pulse 250 ns, carrier frequency 36,50 MHz) $$ $56,0$ $$ dB Feedthrough signal suppression $1,2 \ \mu s \dots 1,1 \ \mu s$ before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz) $$ $56,0$ $$ dB Group delay predistortion (reference frequency 38,00 MHz) $\Delta \tau$ $33,57 \ MHz$ $$ -50 $$ ns nsImpedance at 36,50 MHz	Upper sidelobe	39,50 45,0	0 MHz		39,0	44,0	—	dB
Feedthrough signal suppression 1,2 μ s 1,1 μ s before main pulse (test pulse 250 ns, carrier frequency 36,50 MHz)-56,0-dBGroup delay predistortion (reference frequency 38,00 MHz) $\Delta \tau$ 36,00 MHz56,0-dB36,00 MHz 33,57 MHz56,0-nsImpedance at 36,50 MHz56,0-ns	1,2 μs 6,0 μs after ma (test pulse 250 ns,	in pulse			42,0	52,0	_	dB
(reference frequency 38,00 MHz) 36,00 MHz -50 ns 33,57 MHz 70 ns Impedance at 36,50 MHz 1	Feedthrough signal su 1,2 μs 1,1 μs before m (test pulse 250 ns,	ppression nain pulse			_	56,0	_	dB
36,00 MHz -50 ns 33,57 MHz 70 ns Impedance at 36,50 MHz 1	Group delay predistort	ion		Δτ				
33,57 MHz 70 ns Impedance at 36,50 MHz	(reference frequency 38,	00 MHz)						
Impedance at 36,50 MHz		36,0	0 MHz		—	-50	—	ns
•		33,5	7 MHz		—	70	—	ns
	•							
					—	1,2 18,6	—	kΩ pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$ 1,7 \parallel 4,7 k $\Omega \parallel p$	Output:	$Z_{OUT} = R_{OUT} \parallel c$	C _{OUT}		—	1,7 4,7	—	kΩ pF
Temperature coefficient of frequency TC _f -72 - ppm/k	Temperature coefficien	t of frequency		TC _f		-72		ppm/K



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Characteristics in M/N mode (switching pin 2 connected to pin 1)

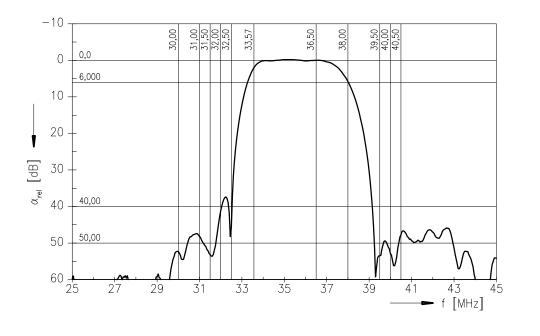
Reference temperature:	<i>T</i> _A = 25 °C
Terminating source impedance:	$Z_{\rm S}$ = 50 Ω
Terminating load impedance:	$Z_{L} = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

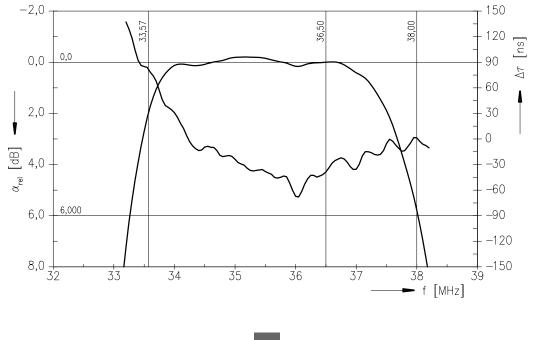
I erminating load impeda	ance:		Z_{L}	= 2 kΩ	3 pF			
					min.	typ.	max.	
Insertion attenuation				α				
Reference level for the		36,50	MHz		14,5	16,0	17,5	dB
following data								
Relative attenuation				α_{rel}				
Picture carrier		38,00	MHz		4,8	5,8	6,8	dB
Color carrier		34,42	MHz		0,9	1,9	2,9	dB
Sound carrier		33,50	MHz		30,0	47,0	—	dB
Adjacent picture carrier		32,00	MHz		47,0	60,0	—	dB
Adjacent sound carrier		39,50	MHz		43,0	51,0	—	dB
Lower sidelobe	25,00	32,00	MHz		41,0	48,0	—	dB
Upper sidelobe	39,50	45,00	MHz		37,0	43,0		dB
Reflected wave signal	suppressio	on						
1,3 μs 6,0 μs after ma	ain pulse				42,0	52,0	—	dB
(test pulse 250 ns,								
carrier frequency 36,50	MHz)							
Feedthrough signal su	ppression							
1,2 μs 1,1 μs before r	nain pulse				—	56,0	—	dB
(test pulse 250 ns,								
carrier frequency 36,50	MHz)							
Group delay predistor	tion			$\Delta \tau$				
(reference frequency 38	,00 MHz)							
		35,00	MHz		_	20	—	ns
		34,42	MHz			70		ns
Impedance at 36,50 MH								
-	$Z_{\rm IN} = R_{\rm II}$	• • •			—	1,3 15,5	—	kΩ pF
Output	$Z_{OUT} = R_C$		JUT		—	1,7 4,7	—	kΩ pF
Temperature coefficie	nt of freque	ency		TC _f		-72	—	ppm/K



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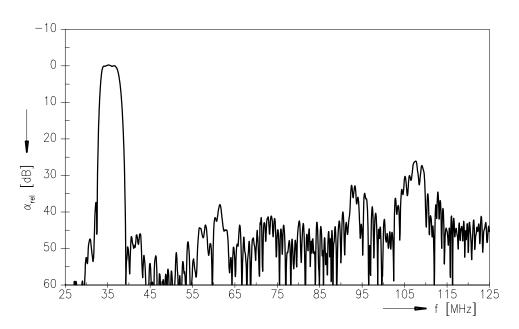
Frequency response in B/G, D/K mode



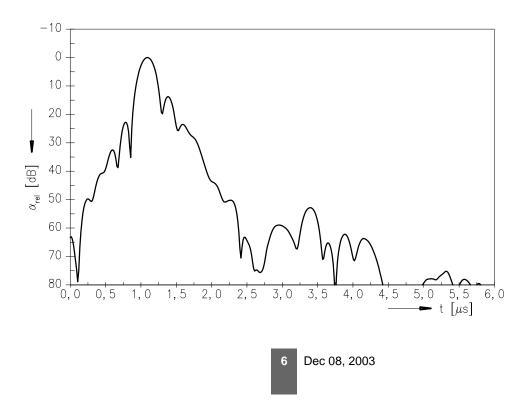


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Frequency response B/G, D/K mode



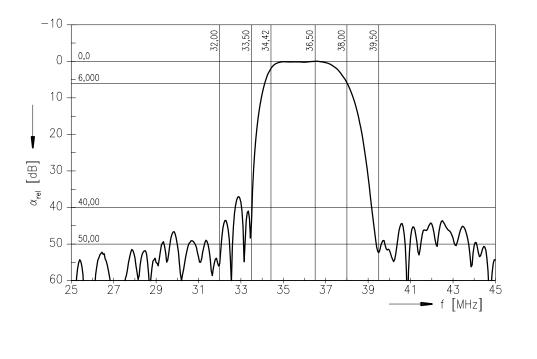
Time domain response B/G, D/K mode

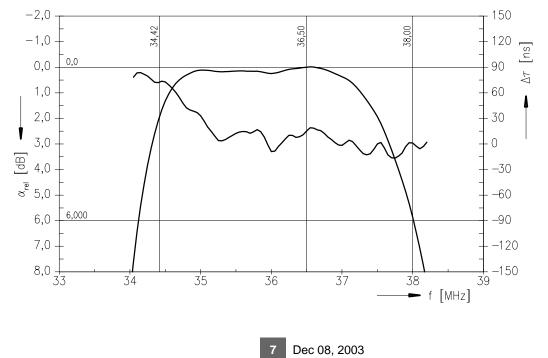




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Frequency response in M/N mode



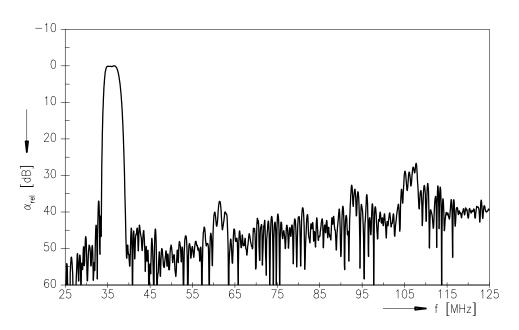


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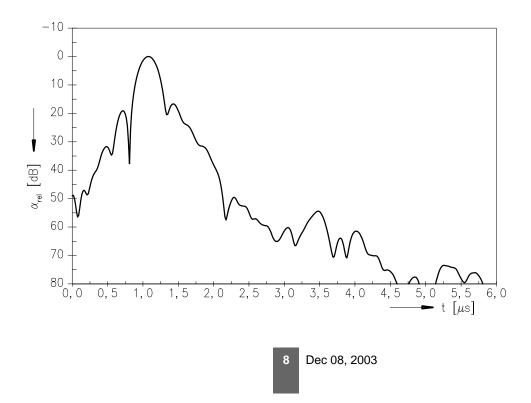
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Data Sheet

Frequency response M/N mode



Time domain response M/N mode





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