

Data Sheet K 3352 K





SAW Components K 3352 K IF Filter for Quasi/Split Sound Applications 38,00 MHz

Data Sheet

Standard

- B/G
- D/K

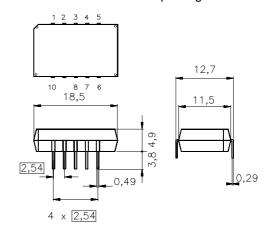
Features

- TV IF filter for quasi/split sound applications (separate picture and sound channel)
- Picture channel with Nyquist slope and sound suppression
- Customized group delay predistortion
- Sound channel with one passband for sound carriers between 31,50 MHz and 32,50 MHz
- Suitable for CENELEC EN 55020

Terminals

Tinned CuFe alloy

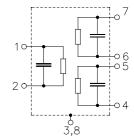
Plastic package **DIP10K**



Dimensions in mm, approx. weight 1,8 g

Pin configuration

- 1 Input
- 2 Input ground
- 3; 8 Chip carrier ground
- 4; 5 Output sound
- 6; 7 Output picture
- 9 Free
- 10 Not connected



Туре	Ordering code	Marking and package according to	Packing according to
K 3352 K	B39380-K3352-K100	C61157-A2-A3	F61074-V8068-Z000

Maximum ratings

Operable temperature range	T_{A}	- 25/+ 65	°C	
Storage temperature range	$T_{\rm stg}$	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	5	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals



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Characteristics of picture channel

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	36,50	MHz		12,1	13,6	15,1	dB
following data							
Relative attenuation			α_{rel}				
Picture carrier	38,00	MHz		5,4	6,4	7,4	dB
Color carrier	33,57	MHz		1,8	2,8	3,8	dB
Sound carrier	31,50	MHz		44,0	52,0	_	dB
	32,50			39,0	54,0	_	dB
Adjacent picture carrier	30,00			43,0	52,0	_	dB
	31,00			48,0	56,0	_	dB
Adjacent sound carrier	39,50			43,0	53,0	_	dB
	40,00			44,0	52,0	_	dB
	39,26			39,0	46,0	_	dB
Lower sidelobe 25,00				40,0	50,0	_	dB
Upper sidelobe 40,00	0 45,00	MHz		38,0	45,0		dB
Reflected wave signal suppr	Reflected wave signal suppression						
1,2 μs 6,0 μs after main puls	se			42,0	52,0	_	dB
(test pulse 250 ns,							
carrier frequency 36,50 MHz)							
Feedthrough signal suppres	sion						
1,2 μs 1,1 μs before					56,0		dB
main pulse				_	36,0	_	ub
(test pulse 250 ns,							
carrier frequency 36,50 MHz)							
Group delay predistortion			Δau				
(reference frequency 38,00 MH	Hz)						
	37,00	MHz		_	30	_	ns
	33,57	MHz		_	-22		ns
Impedance at 36,50 MHz							
Input: Z _{IN}				_	1,0 22,0	_	kΩ pF
Output: Z _{OUT}	$=R_{\text{OUT}} \parallel C_0$	TUC		_	1,7 4,3	_	kΩ pF
Temperature coefficient of fr	equency		TC_{f}	_	-72	_	ppm/K



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Characteristics of sound channel

 T_A = 25 °C Z_S = 50 Ω Z_L = 2 k Ω || 3 pF Reference temperature: Terminating source impedance: Terminating load impedance:

				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the 31,50 MHz			12,3	13,8	15,3	dB	
following data							
Relative attenuation			α_{rel}				
Sound carrier	32,50	MHz		0,7	1,7	2,7	dB
Picture carrier	38,00	MHz		37,0	42,0	_	dB
Color carrier	33,57	MHz		27,0	34,0	_	dB
Adjacent picture carrier	30,00	MHz		36,0	44,0	_	dB
	31,00	MHz		_	6,9	_	dB
Adjacent sound carrier	39,50	MHz		42,0	49,0	_	dB
	40,00	MHz		41,0	47,0	_	dB
Lower sidelobe	25,00 30,00	MHz		32,0	37,0	_	dB
Upper sidelobe	38,00 45,00	MHz		35,0	41,0		dB
Impedance at 31,50 MHz							
Output	$Z_{\text{OUT}} = R_{\text{OUT}} C_{\text{OUT}}$	DUT		_	2,1 3,9		kΩ pF
Temperature coefficient of frequency			TC_{f}	_	-72	_	ppm/K



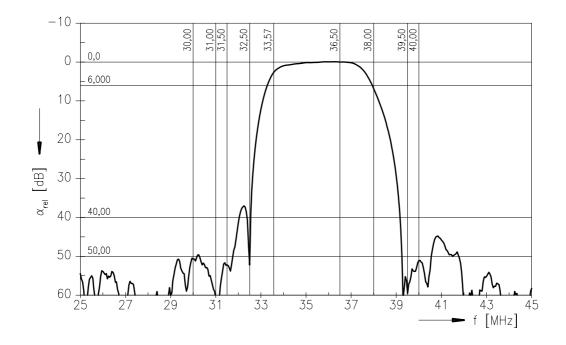
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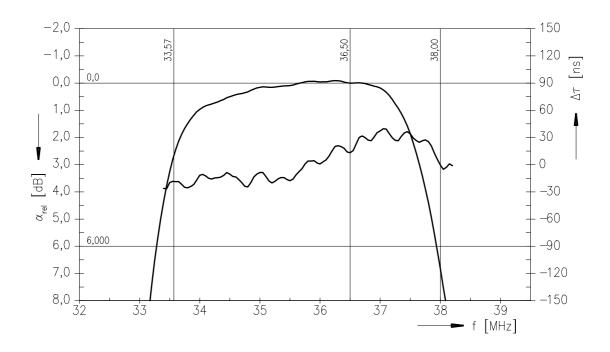
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Frequency response of picture channel







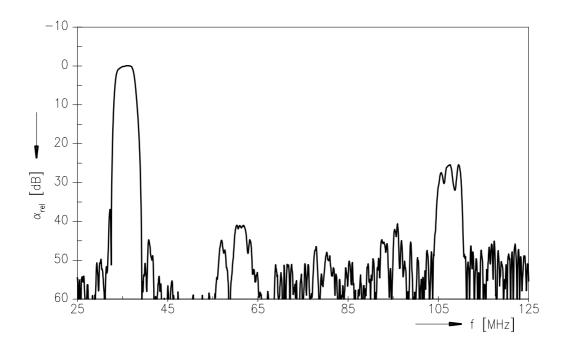
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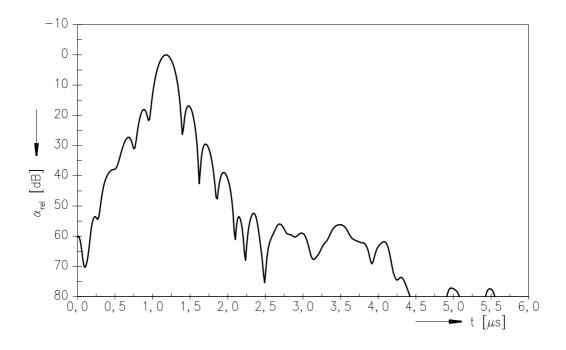
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Frequency response of picture channel



Time domain response of picture channel





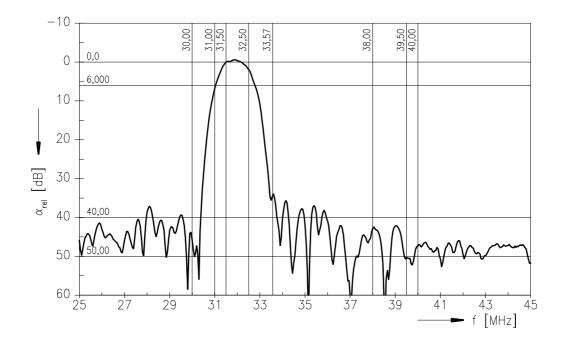
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Frequency response of sound channel





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Published by EPCOS AG Surface Acoustic Wave Components Division, SAW CE MM PD P.O. Box 80 17 09, D-81617 München

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