

# SAW Components

Data Sheet K 3350 K





# SAW Components

#### IF Filter for Quasi/Split Sound Applications

## Data Sheet

## Standard

- B/G
- D/K

#### Features

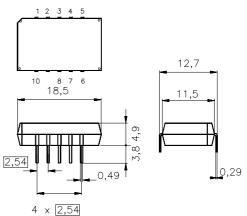
- TV IF filter for quasi/split sound applications (separate picture and sound channel)
- Picture channel with Nyquist slope and sound suppression
- Reduced group delay predistortion as compared with standard B/G half
- Sound channel with one passband for sound carriers at 32,40 MHz (D/K) and 33,40 MHz (B/G)
- Suitable for CENELEC EN 55020

#### Terminals

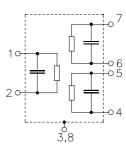
■ Tinned CuFe alloy

## **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



#### Dimensions in mm, approx. weight 1,8 g



Туре	Ordering code	Marking and package according to	Packing according to		
K 3350 K	B39389-K3350-K100	C61157-A2-A3	F61074-V8068-Z000		

#### **Maximum ratings**

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

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Plastic package DIP10K

K 3350 K

38,90 MHz



SAW Components					_	_		3350 K
IF Filter for Quasi/	Split Soun	d Applic	cation	S			38,9	90 MHz
Data Sheet								
Characteristics of pie	cture chann	el						
Reference temperatur Terminating source im Terminating load impe	pedance:		T <sub>A</sub> Z <sub>S</sub> Z <sub>L</sub>					
					min.	typ.	max.	
Insertion attenuation				α		51		
Reference level for the following data	9	37,40	MHz		13,0	14,5	16,0	dB
Relative attenuation				$\alpha_{rel}$				
Picture carrier		38,90	MHz	101	5,2	6,2	7,2	dB
Color carrier		34,47	MHz		0,4	1,4	2,4	dB
Sound carrier		33,40	MHz		34,0	43,0	—	dB
Adjacent picture carrie	er	30,90	MHz		45,0	53,0	—	dB
		31,90			47,0	57,0	—	dB
		31,40			_	60,0		
		32,40			47,0	55,0		
		40,15			43,0	59,0		
Adjacent sound carrie	r	40,40			45,0	56,0	—	dB
	05.00	41,40			43,0	55,0	_	dB
Lower sidelobe Upper sidelobe		31,90 45,00			39,0 34,0	44,0 40,0	_	dB dB
Reflected wave signa	al suppress	ion						
1,3 μs 6,0 μs after r					42,0	52,0	_	dB
(test pulse 250 ns,	·					,		
carrier frequency 37,4	0 MHz)							
Feedthrough signal s	suppressio	า						
1,2 μs 1,1 μs before	e main pulse				50,0	56,0	—	dB
(test pulse 250 ns,								
carrier frequency 37,4	0 MHz)							
Group delay predisto	ortion			$\Delta \tau$				
(reference frequency 3	38,90 MHz)							
		36,90			-	-90	—	ns
		34,47	MHz		—	30	—	ns
Impedance at 37,40 M								
	$Z_{\rm IN} = F$				-	1,1  24,8	—	kΩ    pF
Outp	ut: <i>Z</i> <sub>OUT</sub> = F		TUC			1,6    4,1		kΩ    pF
Temperature coeffici	ent of freat	iencv		TC <sub>f</sub>	_	-72	_	ppm/K

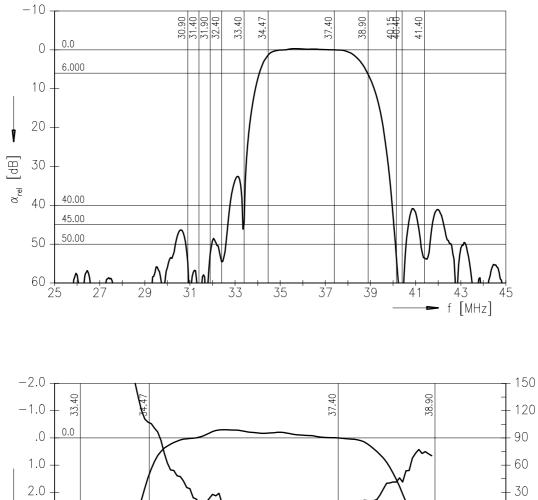


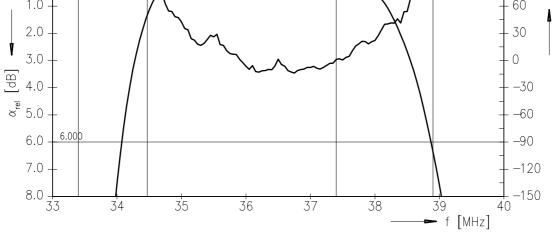
SAW Components						K 3350 K		
IF Filter for Quasi/Split Sound Applications						38,90 MHz		
Data Sheet								
Characteristics of so	ound chann	el						
Reference temperatur Terminating source in Terminating load impo	npedance:		$Z_{\rm S}$	= 25 °C = 50 Ω = 2 kΩ				
					min.	typ.	max.	
Insertion attenuation	า			α				
Reference level for th	е	33,40	MHz		12,5	14,0	15,5	dB
following data								
Relative attenuation				$\alpha_{rel}$				
Sound carrier		33,05	MHz		-1,5	-0,5	0,5	dB
		32,40	MHz		-1,4	-0,4	0,6	dB
Picture carrier		38,90	MHz		41,0	49,0	_	dB
Color carrier		34,47	MHz		28,0	34,0	_	dB
Adjacent picture carri	er	30,90	MHz		36,0	43,0	_	dB
Adjacent sound carrie	er	40,40	MHz		44,0	52,0	_	dB
		41,40	MHz		46,0	56,0	—	dB
Lower sidelobe	25,00	30,90	MHz		36,0	41,0	—	dB
Upper sidelobe	38,90	45,00	MHz		41,0	48,0	—	dB
Impedance at 33,40	MHz							
Outp	out: $Z_{OUT} = I$		JUT			3,6    2,3		$k\Omega \parallel pF$
Temperature coeffic	ient of frequ	uency		TC <sub>f</sub>		-72		ppm/K



SAW Components	K 3350 K
IF Filter for Quasi/Split Sound Applications	38,90 MHz

## Frequency response of picture channel





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Mar 31, 2006

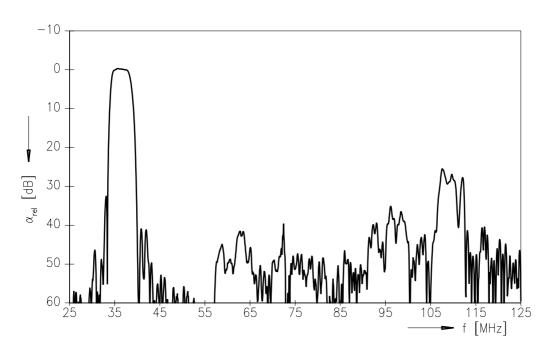
ns

 $\Delta_{\mathcal{T}}$ 

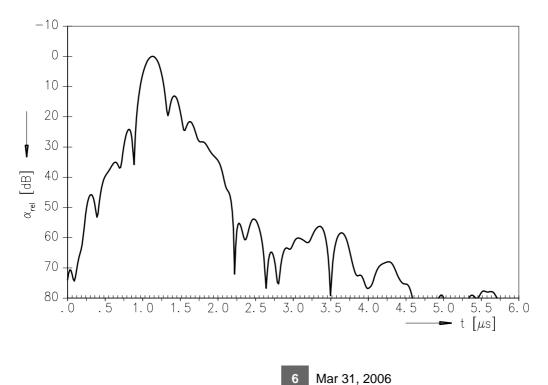


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## Frequency response of picture channel



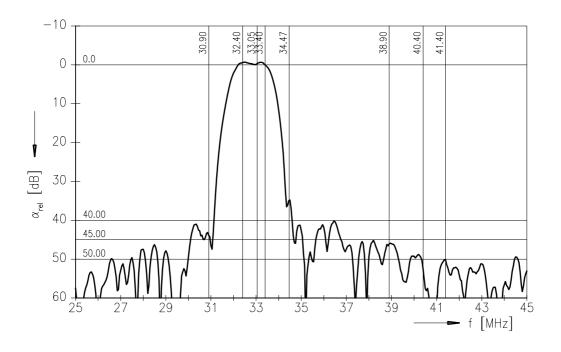
# Time domain response of picture channel



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## Frequency response of sound channel



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