

SAW Components

Data Sheet G 3355 K





SAW ComponentsG 3355 KIF Filter for Quasi/Split Sound Applications38,90 MHz

Data Sheet

Standard

■ B/G

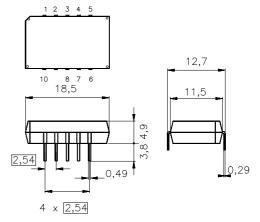
Features

- TV IF filter for quasi/split sound applications (separate picture and sound channel)
- Picture channel with Nyquist slope and sound suppression
- Group delay predistortion
- Sound channel with passband only for sound carriers at 33,40 MHz and 33,05 MHz (NICAM)
- Suitable for CENELEC EN 55020

Terminals

Tinned CuFe alloy

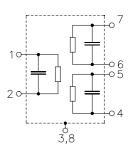
Plastic package DIP10K



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
G 3355 K	B39389-G3355-K100	C61157-A2-A3	F61074-V8068-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





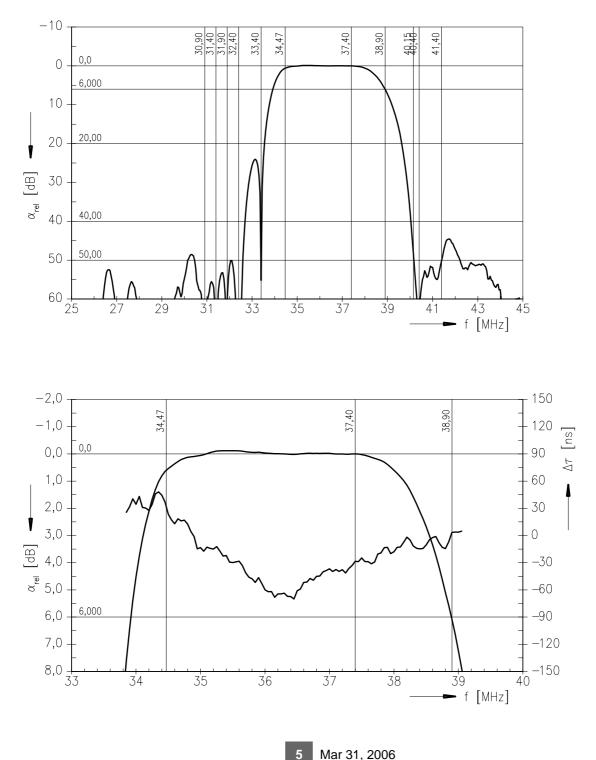
SAW Components					G 3355 K			
IF Filter for Quasi/Split Sound Applications					38,90 MHz			
Data Sheet								
Characteristics of pie	cture chann	el						
Reference temperatur Terminating source im Terminating load impe	pedance:		$Z_{\rm S}$	= 25 °C = 50 Ω = 2 kΩ				
					min.	typ.	max.	
Insertion attenuation				α				
Reference level for the	e	37,40	MHz		12,5	14,0	15,5	dB
following data								
Relative attenuation				α_{rel}				
Picture carrier		38,90	MHz	161	5,0	6,0	7,0	dB
Color carrier		34,47			-0,6	0,4	1,4	dB
Sound carrier		33,40			30,0	48,0		dB
Adjacent picture carrie	er	30,90			46,0	60,0	_	dB
		31,90			48,0	56,0	_	dB
		32,40			46,0	55,0	_	dB
		40,15			38,0	48,0	_	dB
Adjacent sound carrie	r	40,40			46,0	60,0	_	dB
		41,40			45,0	59,0	_	dB
Lower sidelobe	25,00 .				40,0	46,0	_	dB
Upper sidelobe		45,00			40,0	46,0	—	dB
Reflected wave signa	al suppress	ion						
1,2 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					_	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)							
		36,30	MHz		_	-55	—	ns
		34,47	MHz		-	40		ns
Impedance at 37,40 M								
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$				-	1,0 24,4	—	kΩ pF	
Outp	ut: <i>Z</i> _{OUT} = F	R _{OUT} <i>С</i> о	JUT		-	1,6 3,9	—	kΩ pF
Temperature coeffici	ent of frequ	iency		TC _f	_	-72	_	ppm/K



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Characteristics of s	ound channel						
Reference temperatu Terminating source ir Terminating load imp	npedance:	$T_{A} = 25 ° C$ $Z_{S} = 50 \Omega$ $Z_{L} = 2 k\Omega$					
			min.	typ.	max.		
Insertion attenuatio	n	α					
Reference level for th following data	e 33,05 M	1Hz	12,7	14,2	15,7	dB	
Relative attenuation		α_{rel}					
Sound carrier	33,40 N		1,0	2,0	3,0	dB	
Picture carrier	38,90 N	1Hz	42,0	56,0	—	dB	
Color carrier	34,47 N	1Hz	28,0	35,0	—	dB	
Adjacent picture carri	er 30,90 N	1Hz	30,0	37,0	—	dB	
	31,90 N	1Hz	32,0	41,0	—	dB	
Adjacent sound carrie	er 40,40 N	1Hz	42,0	53,0	—	dB	
	41,40 N	1Hz	42,0	54,0	—	dB	
Lower sidelobe	25,00 31,90 N	1Hz	28,0	34,0	—	dB	
Upper sidelobe	38,90 45,00 M	1Hz	38,0	46,0	—	dB	
Impedance at 33,05							
Output: $Z_{OUT} = R_{OUT} C_{OUT}$			—	4,1 2,6	_	$k\Omega \parallel pF$	
Temperature coeffic	ient of frequency	TC _f	<u> </u>	-72		ppm/K	



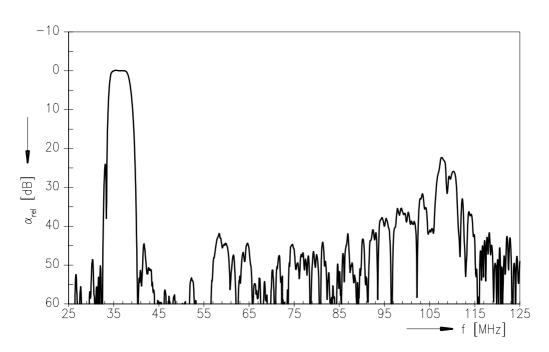
Frequency response of picture channel



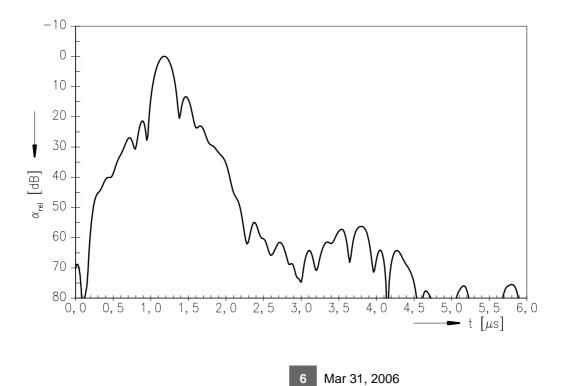


G 3355 K
38,90 MHz

Frequency response of picture channel



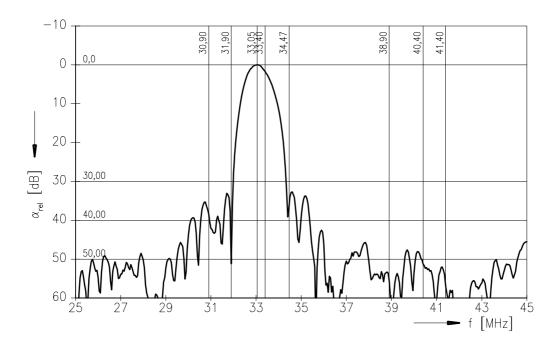
Time domain response of picture channel



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Frequency response of sound channel



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