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SAW COMPONENTS

Series/Type: J3353K

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product		Deadline Last Orders	Last Shipments
B39389J3353K100	K3953M + K9353M	2008-01-18	2008-06-30	2008-09-30

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.



Plastic package **DIP10K**

SAW Components	J 3353 K
IF Filter for Quasi/Split Sound Applications	38,90 MHz

Data Sheet

Standard

- **=** 1
- 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 passband for sound carriers at 32,90 MHz and 32,35 MHz (NICAM)
- Suitable for CENELEC EN 55020

1 2 3 4 5 10 8 7 6 18,5 11,5 11,5 0,29 4 x 2,54

Dimensions in mm, approx. weight 1,8 g

Terminals

■ Tinned CuFe alloy

Pin configuration

1	Input

2 Input - ground

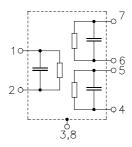
3; 8 Chip carrier - ground

4; 5 Output - sound

6; 7 Output - picture

9 Free

10 Not connected



Туре	Ordering code	Marking and package according to	Packing according to
J 3353 K	B39389-J3353-K100	C61157-A2-A3	F61074-V8068-Z000

Maximum ratings

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



SAW Components J 3353 K

IF Filter for Quasi/Split Sound Applications

38,90 MHz

Data Sheet

Characteristics of picture channel

 $T_{A} = 25 \,^{\circ}\text{C}$ $Z_{S} = 50 \,\Omega$ $Z_{L} = 2 \,\text{k}\Omega \,|| \,3 \,\text{pF}$ Reference temperature: Terminating source impedance: Terminating load impedance:

				min.	typ.	max.	
Insertion attenuation			α				
Reference level for the	37,40	MHz		12,9	14,4	15,9	dB
following data							
Relative attenuation			$lpha_{\text{rel}}$				
Picture carrier	38,90	MHz		5,0	6,0	7,0	dB
Color carrier	34,47	MHz		-0,6	0,4	1,4	dB
Sound carrier	32,90	MHz		40,0	52,0	_	dB
	32,35	MHz		44,0	56,0	_	dB
Adjacent picture carrier	30,90	MHz		50,0	62,0	_	dB
	30,40	MHz		48,0	60,0	_	dB
	31,40	MHz		48,0	60,0	_	dB
Adjacent sound carrier	40,90	MHz		45,0	55,0	_	dB
	40,35	MHz		43,0	53,0	_	dB
Lower sidelobe 25	,00 30,90	MHz		46,0	54,0	_	dB
Upper sidelobe 40	,90 45,00	MHz		39,0	45,0	_	dB
Reflected wave signal sup	pression						
1,2 μs 6,0 μs after main p				42,0	55,0	_	dB
(test pulse 250 ns,							
carrier frequency 37,40 MHz)						
Feedthrough signal suppre	ession						
1,2 μs 1,1 μs before main	pulse			50,0	56,0	_	dB
(test pulse 250 ns,							
carrier frequency 37,40 MHz)						
Group delay predistortion			Δτ				
(reference frequency 38,90 l	MHz)						
(,	MHz		_	0	_	ns
	· · · · · · · · · · · · · · · · · · ·	MHz		_	– 50	_	ns
Impedance at 37,40 MHz							
	$=R_{IN} \mid\mid C$			_	1,2 24,0	_	$k\Omega \parallel pF$
Output: Z _{OU}	$_{\rm JT} = R_{\rm OUT} \parallel C$	OUT		_	2,5 3,6	_	k $\Omega \parallel pF$
Temperature coefficient of frequency $TC_{\rm f}$			TC_{f}	_	-72	_	ppm/K



IF Filter for Quasi/Split Sound Applications

J 3353 K 38,90 MHz

Data Sheet

Characteristics of sound 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							
Reference level for the	32,35	MHz		10,4	11,9	13,4	dB
following data							
Relative attenuation			α_{rel}				
Sound carrier	32,90	MHz		-0,5	0,5	1,5	dB
	31,95	MHz		_	2,5	_	dB
Picture carrier	38,90	MHz		46,0	58,0	_	dB
Color carrier	34,47	MHz		33,0	47,0	_	dB
Adjacent picture carrier	30,90	MHz		40,0	51,0	_	dB
Adjacent sound carrier	40,90	MHz		48,0	59,0	_	dB
	40,35	MHz		46,0	55,0	_	dB
Lower sidelobe	25,00 30,90	MHz		39,0	45,0	_	dB
Upper sidelobe	38,90 45,00	MHz		44,0	50,0	_	dB
Impedance at 32,35 MHz							
Output	$Z_{OUT} = R_{OUT} C_0$	TUC		_	2,5 3,6	_	k $\Omega \mid\mid$ pF
Temperature coefficient of frequency			TC _f	_	-72	_	ppm/K



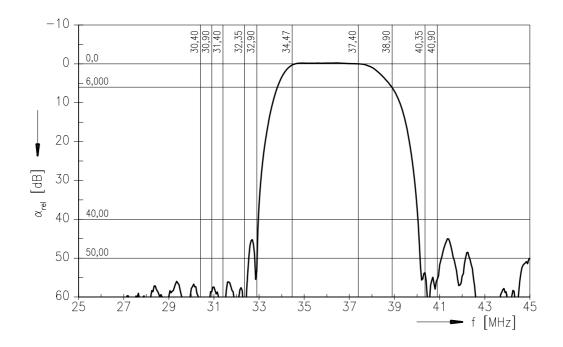
J 3353 K

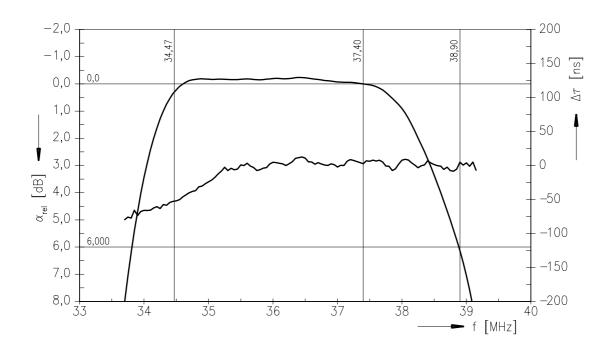
IF Filter for Quasi/Split Sound Applications

38,90 MHz

Data Sheet

Frequency response of picture channel







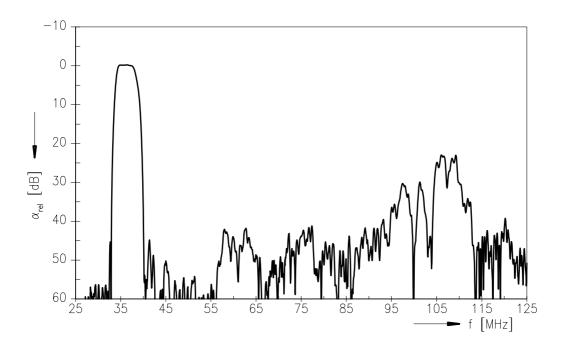
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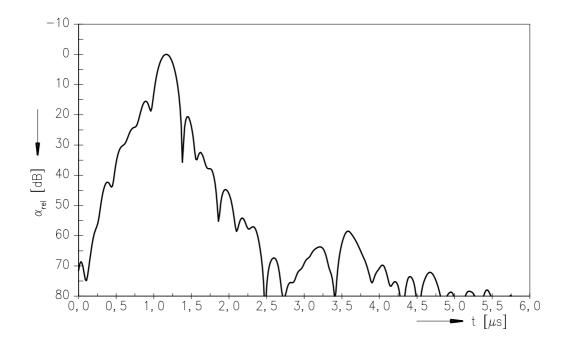
38,90 MHz

Data Sheet

Frequency response of picture channel



Time domain response of picture channel





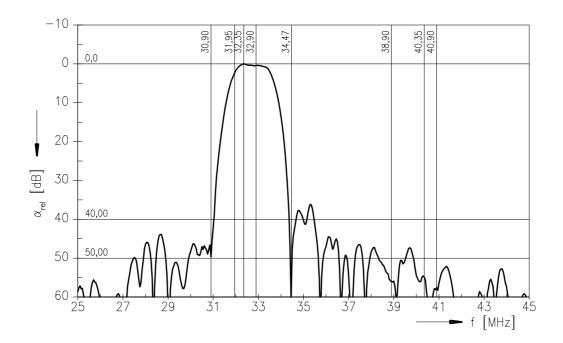
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38,90 MHz

Data Sheet

Frequency response of sound channel





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38,90 MHz

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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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