

IF Filter for Intercarrier Applications

D 1952 M
38,00 MHz

Standard

- D/K-OIRT
Eastern standard, China

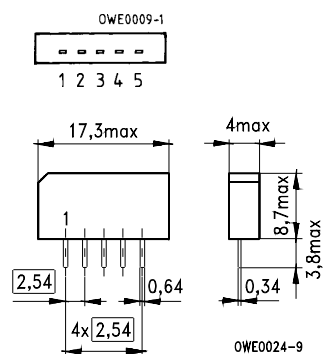
Features

- TV IF filter with Nyquist slope and sound shelf
- Group delay predistortion according standard D/K, half, CCIR report 308

Terminals

- Tinned CuFe alloy

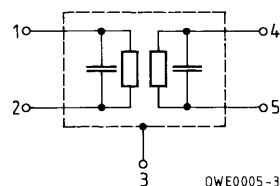
Plastic package **SIP 5 K**



Dimensions in mm, approx. weight 1,0 g

Pin configuration

- 1 Input
- 2 Input – ground
- 3 Chip carrier – ground
- 4 Output
- 5 Output



Type	Ordering code	Marking
D 1952 M	B39380-D1952-M100	Type, date code, pin 1

Maximum ratings

Ambient temperature	T_A	- 25/+ 65	°C	—
Storage temperature	T_{stg}	- 25/+ 85	°C	—
DC voltage	V_{DC}	12	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals

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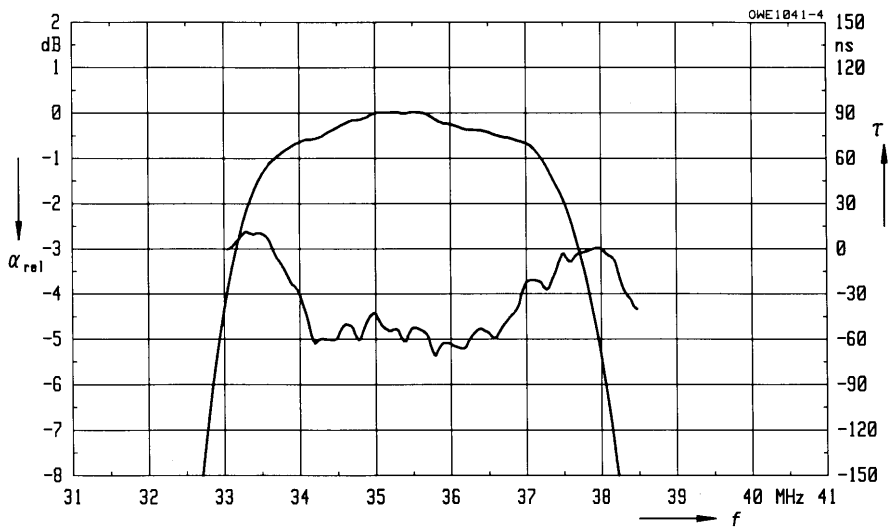
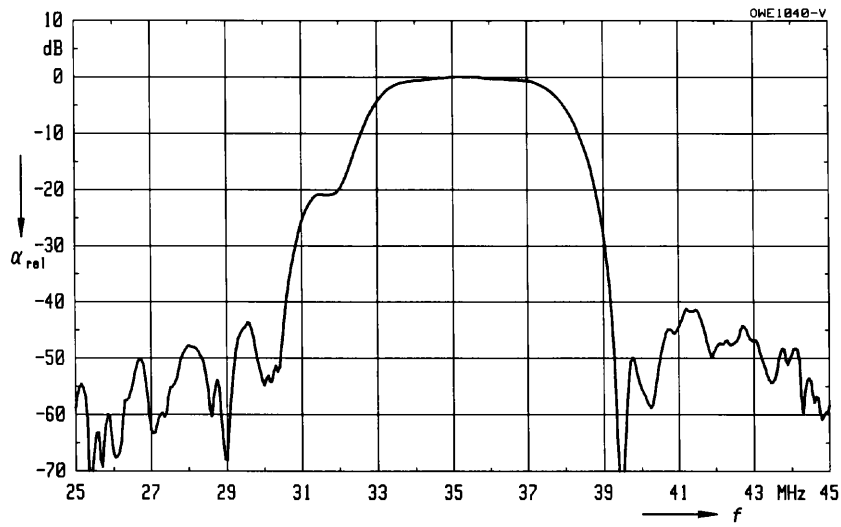
Characteristics

Ambient temperature $T_A = 25\text{ °C}$
 Source impedance $Z_S = 50\ \Omega$
 Load impedance $Z_L = 2\text{ k}\Omega \parallel 3\text{ pF}$

		min.	typ.	max.	
Insertion attenuation					
Reference level for the following data	35,00 MHz	15,0	16,7	18,0	dB
Relative attenuation					
Picture carrier	38,00 MHz	4,3	5,3	6,3	dB
Color carrier	33,57 MHz	0,3	1,3	2,3	dB
Sound carrier	31,50 MHz	19,7	20,7	21,7	dB
Adjacent picture carrier	30,00 MHz	46,0	51,0	—	dB
Adjacent sound carrier	39,50 MHz	44,0	52,0	—	dB
Lower sidelobe	25,00 ... 30,00 MHz	41,0	45,0	—	dB
Upper sidelobe	39,50 ... 45,00 MHz	35,0	39,0	—	dB
Reflected wave signal suppression					
1,2 μ s ... 6,0 μ s after main pulse (test pulse: 250 ns, carrier frequency: 35,00 MHz)		44,0	55,0	—	dB
Feedthrough signal suppression					
1,0 μ s ... 0,9 μ s before main pulse (test pulse: 250 ns, carrier frequency: 35,00 MHz)		50,0	56,0	—	dB
Group delay predistortion					
(reference frequency 38,00 MHz)					
	35,60 MHz	—	-60	—	ns
	33,57 MHz	—	5	—	ns
Impedance at 35,00 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	2,8 \parallel 12,0	—	k Ω \parallel pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	1,5 \parallel 5,5	—	k Ω \parallel pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K

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Frequency response



IF Filter for Intercarrier Applications

K 2953 M
38,00 MHz

Standard

- D/K-OIRT
Eastern standard
- B/G-CCIR
Europe partly

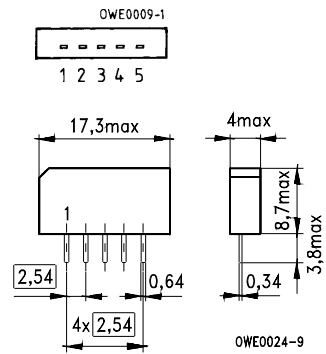
Features

- TV IF filter with Nyquist slope and sound shelf
- Broad sound shelf for sound carriers at 31,50 MHz and 32,50 MHz
- Customized group delay predistortion

Terminals

- Tinned CuFe alloy

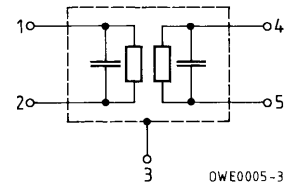
Plastic package **SIP 5 K**



Dimensions in mm, approx. weight 1,0 g

Pin configuration

- 1 Input
- 2 Input – ground
- 3 Chip carrier – ground
- 4 Output
- 5 Output



Type	Ordering code	Marking
K 2953 M	B39380-K2953-M100	Type, date code, pin 1

Maximum ratings

Ambient temperature	T_A	- 25/+ 65	°C	-
Storage temperature	T_{stg}	- 25/+ 85	°C	-
DC voltage	V_{DC}	12	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals