

Standard

- M/N-FCC
USA

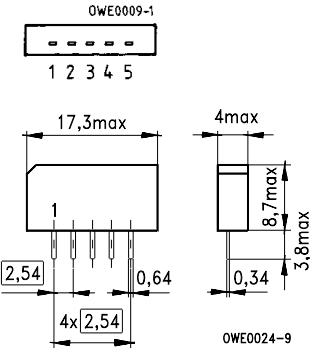
Features

- TV IF audio filter with pass band
for sound carrier at 41,25 MHz

Terminals

- Tinned CuFe alloy

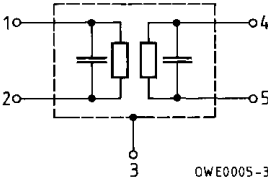
Plastic package SIP 5 K



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
M 9352 M	B39458-M9352-M100	Type, date code, pin 1

Maximum ratings

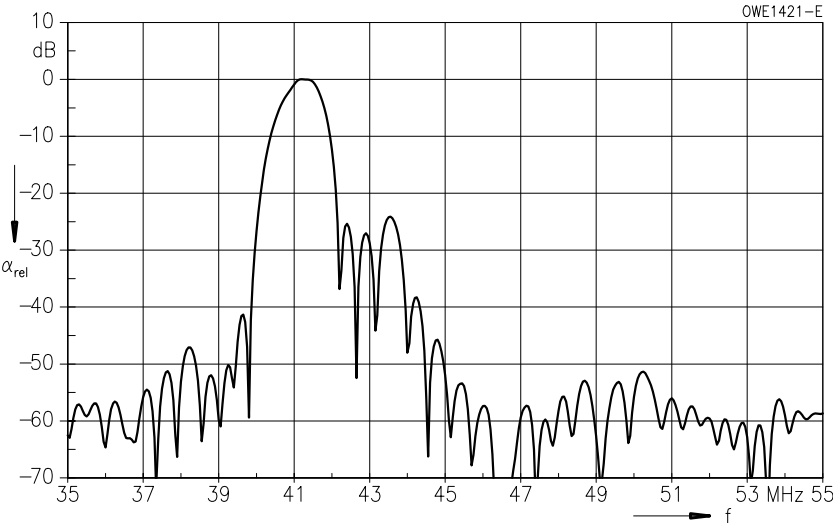
Ambient temperature	T_A	– 25/+ 65	°C	—
Storage temperature	T_{stg}	– 25/+ 85	°C	—
DC voltage	V_{DC}	12	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals

Characteristics

Ambient temperature $T_A = 25\text{ }^{\circ}\text{C}$
 Source impedance $Z_S = 50\text{ }\Omega$
 Load impedance $Z_L = 50\text{ }\Omega$

		min.	typ.	max.	
Center frequency (center between 10 dB points)	f_c	—	41,25	—	MHz
Insertion attenuation Reference level for the following data	α 41,25 MHz	17,0	18,5	20,0	dB
Relative attenuation	α_{rel}				
	40,95 MHz	0,5	1,5	2,5	dB
	41,55 MHz	−0,3	0,7	1,7	dB
	39,17 MHz	40,0	54,0	—	dB
Picture carrier	45,75 MHz	46,0	59,0	—	dB
Color carrier	42,17 MHz	20,0	28,0	—	dB
Adjacent picture carrier	39,75 MHz	40,0	45,0	—	dB
Adjacent sound carrier	47,25 MHz	46,0	62,0	—	dB
Lower sidelobe	35,00 ... 39,75 MHz	36,0	41,0	—	dB
Upper sidelobe	45,75 ... 55,00 MHz	42,0	52,0	—	dB
Group delay ripple (p-p)	$\Delta\tau$	—	90	—	ns
Impedance at 41,25 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	0,1 24,2	—	k Ω pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	1,2 8,3	—	k Ω pF
Temperature coefficient of frequency	TC_f	—	−72	—	ppm/K

Frequency response



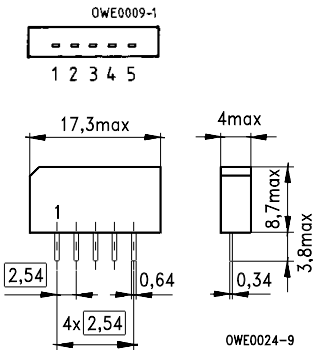
Features

- IF filter for digital cable radio (DCR)

Terminals

- Tinned CuFe alloy

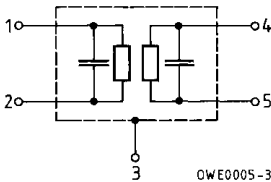
Plastic package SIP 5 K



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
X 6957 M	B39440-X6957-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

X 6957 M

44,00 MHz

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.	
Center frequency (center between 10 dB points)	f_c	—	44,00	—	MHz
Insertion attenuation Reference level for the following data	44,00 MHz	10,9	12,4	13,9	dB
Amplitude ripple (p-p)	43,00 ... 45,00 MHz	0,0	$\pm 0,4$	$\pm 1,0$	dB
Passband tilt	43,00 ... 45,00 MHz	0,7	0,9	1,1	dB
Relative attenuation					
	42,75 MHz	0,8	1,8	2,8	dB
	45,25 MHz	0,8	1,8	2,8	dB
	42,50 MHz	5,0	6,0	7,0	dB
	45,50 MHz	5,1	6,1	7,1	dB
	42,00 MHz	25,0	30,0	—	dB
	46,00 MHz	25,0	29,0	—	dB
	41,75 MHz	42,0	52,0	—	dB
	46,25 MHz	33,0	40,0	—	dB
Lower sidelobe	35,00 ... 41,75 MHz	38,0	43,0	—	dB
Upper sidelobe	46,25 ... 55,00 MHz	31,0	35,0	—	dB
Reflected wave signal suppression 1,3 μ s ... 6,0 μ s after main pulse (test pulse: 250 ns, carrier frequency: 44,00 MHz)		42,0	47,0	—	dB
Feedthrough signal suppression 1,4 μ s ... 1,3 μ s before main pulse (test pulse: 250 ns, carrier frequency: 44,00 MHz)		50,0	56,0	—	dB
Group delay ripple (p-p)					
	42,50 ... 45,50 MHz	—	60	80	ns
	42,75 ... 45,25 MHz	—	40	60	ns
Impedance at 44,00 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,0 $\parallel$ 12,6	—	—
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	0,6 $\parallel$ 5,5	—	—
Temperature coefficient of frequency	TC_f	—	- 72	—	ppm/K

Frequency response

