

# Vestigial Sideband Filter

**B 585**  
**38,90 MHz**

## Standard

Metal package **SIP 6 M**

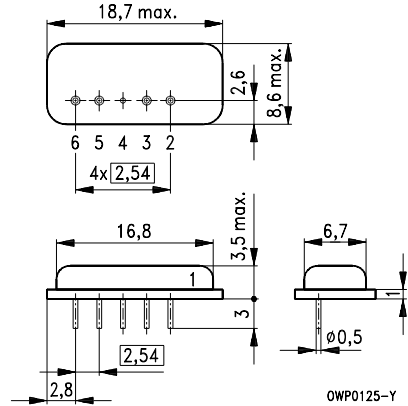
- B/G-CCIR  
Germany, Europe partly

## Features

- IF filter for antenna converters
- Full transmission of vestigial sideband and sound carrier
- Constant group delay
- Hermetically sealed metal package

## Terminals

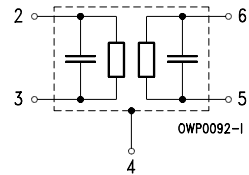
- Tinned NiFeCo alloy



Dimensions in mm, approx. weight 3,0 g

## Pin configuration

- 2 Input
- 3 Input – ground
- 6 Output
- 5 Output – ground
- 4 Case – ground



Type	Ordering code	Marking
B 585	B39390-B585-X110	Type, date code, pin 1

Electrostatic Sensitive Device (ESD)

## Maximum ratings

Ambient temperature	$T_A$	- 25/+ 85	°C	—
Storage temperature	$T_{stg}$	- 40/+ 85	°C	—
DC voltage	$V_{DC}$	0	V	—
Source power	$P_s$	15	dBm	source impedance 50 $\Omega$

# B 585

## 38,90 MHz

### Characteristics

Ambient temperature	$T_A = 25\text{ °C}$
Source impedance	$Z_S = 50\ \Omega$
Load impedance	$Z_L = 50\ \Omega$
Group delay aperture	80 kHz

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$	—	38,90	—	MHz
<b>Insertion attenuation at <math>f_N</math></b>	$\alpha_N$	33,4	34,9	36,4	dB
<b>Relative attenuation</b> (relative to $\alpha_N$ )	$\alpha_{rel}$				
Sound carrier	39,65 MHz	2,3	3,3	4,3	dB
Sound carrier	33,40 MHz	- 0,8	0,2	1,2	dB
2nd sound carrier	33,15 MHz	- 0,9	0,1	1,1	dB
Adjacent picture carrier	31,90 MHz	34,0	43,0	—	dB
	40,15 MHz	22,0	25,0	—	dB
Adjacent sound carrier	40,40 MHz	34,0	44,0	—	dB
	44,40 MHz	38,0	49,0	—	dB
Lower sidelobe	25,00 ... 31,90 MHz	32,0	38,0	—	dB
Upper sidelobe	40,40 ... 45,00 MHz	30,0	37,0	—	dB
<b>Reflected wave signal suppression</b>					
1,5 $\mu$ s ... 6,0 $\mu$ s after main pulse		42,0	52,0	—	dB
<b>Feedthrough signal suppression</b>					
1,6 $\mu$ s ... 1,5 $\mu$ s before main pulse		50,0	56,0	—	dB
<b>Group delay ripple</b> (p-p)	$\Delta\tau$				
	33,40 ... 39,65 MHz	—	55	80	ns
<b>Impedance at <math>f_N</math></b>					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	1,0    22,2	—	k $\Omega$    pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	2,9    7,3	—	k $\Omega$    pF
<b>Temperature coefficient of frequency</b>	$TC_f$	—	- 94	—	ppm/K

Frequency response

