

Vestigial Sideband Filter

B 545
45,75 MHz

Standard

- M/N
 USA, South America

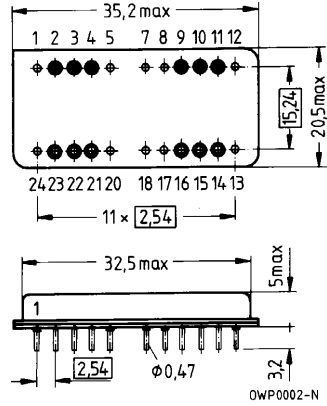
Features

- Vestigial sideband filter with sound suppression
- Constant group delay
- Hermetically sealed metal package

Terminals

- Gold-plated NiFeCo alloy

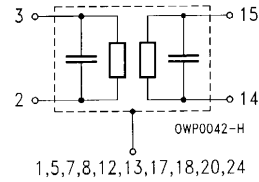
Metal package **DIP 24-06**



Dimensions in mm, approx. weight 10,4 g

Pin configuration

- 3 Input
- 2 Input – ground
- 15 Output
- 14 Output – ground
- 1, 5, 7, 8, 12, 13, 17, 18, 20, 24 Case – ground
- 4, 9, 10, 11, 16, 21, 22, 23 Not connected



Type	Ordering code	Marking
B 545	B39460-B545-G310	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 Ω

B 545
45,75 MHz

Characteristics

Ambient temperature $T_A = 60\text{ °C}$
 Source impedance $Z_S = 50\ \Omega$
 Load impedance $Z_L = 50\ \Omega$
 Group delay aperture 80 kHz

		min.	typ.	max.	
Nominal frequency	f_N	—	45,75	—	MHz
Insertion attenuation at f_N	α_N	26,5	27,5	29,0	dB
Relative attenuation (relative to α_N)	α_{rel}				
	41,65 MHz	—	1,4	2,0	dB
	46,50 MHz	—	1,1	2,0	dB
	20,00 ... 40,15 MHz	50,0	55,0	—	dB
	40,15 ... 41,20 MHz	45,0	52,0	—	dB
	47,00 ... 47,70 MHz	45,0	48,0	—	dB
	47,70 ... 60,00 MHz	50,0	54,0	—	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
	41,85 ... 46,25 MHz	—	0,3	0,5	dB
Reflected wave signal suppression					
3,5 μ s ... 13,0 μ s after main pulse		50,0	63,0	—	dB
Group delay at f_N	τ_N	—	4,4	—	μ s
Group delay ripple (p-p)	$\Delta\tau$				
	41,85 ... 46,25 MHz	—	30	50	ns
Temperature coefficient of frequency	TC_f	—	- 87	—	ppm/K

Frequency response

