

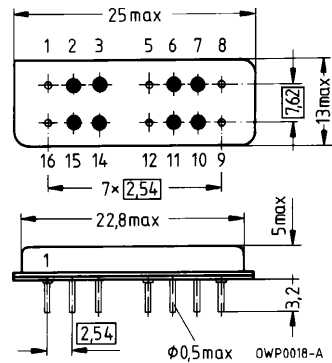
Features

- High-performance IF bandpass filter
- Constant group delay
- Hermetically sealed metal package

Terminals

- Gold-plated NiFeCo alloy

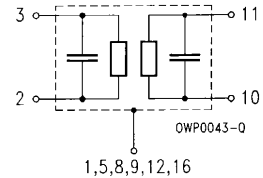
Metal package DIP 16



Dimensions in mm, approx. weight 4,2 g

Pin configuration

- | | |
|--------------------|-----------------|
| 3 | Input |
| 2 | Input – ground |
| 11 | Output |
| 10 | Output – ground |
| 1, 5, 8, 9, 12, 16 | Case – ground |



Type	Ordering code	Marking
B 521	B39121-B521-E110	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

Characteristics

Ambient temperature	$T_A = 35\text{ °C}$
Source impedance	$Z_S = 50\ \Omega$
Load impedance	$Z_L = 50\ \Omega$
Group delay aperture	200 kHz

		min.	typ.	max.	
Center frequency (center between 3 dB points)	f_c	117,80	118,00	118,20	MHz
Insertion attenuation at f_c	α_c	20,0	22,0	24,0	dB
Amplitude ripple (p-p) 112,80 ... 123,00 MHz		—	0,8	1,0	dB
Pass bandwidth					
$\alpha_{rel} \leq 1\text{ dB}$	$B_{1\text{dB}}$	10,7	10,9	11,1	MHz
$\alpha_{rel} \leq 3\text{ dB}$	$B_{3\text{dB}}$	11,8	11,9	12,0	MHz
$\alpha_{rel} \leq 40\text{ dB}$	$B_{40\text{dB}}$	15,4	15,55	15,7	MHz
Relative attenuation (relative to α_c)	α_{rel}				
100,00 ... 107,00 MHz		50,0	52,0	—	dB
107,00 ... 108,70 MHz		45,0	48,0	—	dB
108,70 ... 109,80 MHz		50,0	55,0	—	dB
126,20 ... 136,00 MHz		50,0	53,0	—	dB
Reflected wave signal suppression 0,9 μs ... 4,7 μs after main pulse		48,0	52,0	—	dB
Group delay at f_c	τ_c	—	1,3	—	μs
Group delay ripple (p-p) 112,00 ... 124,00 MHz	$\Delta\tau$	—	25	35	ns
Temperature coefficient of frequency	TC_f	—	-87	—	ppm/K

B 521
118,00 MHz

Frequency response

