

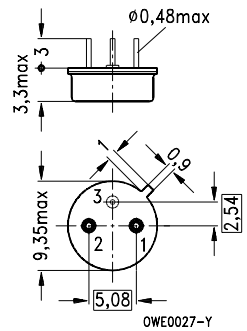
**Features**

- IF filter for DSB receivers
- Constant group delay
- Optimized group delay time

**Terminals**

- Gold-plated NiFeCo alloy

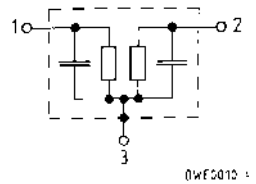
Metal package TO 39



Dimensions in mm, approx. weight 1,0 g

**Pin configuration**

- 1 Input
- 2 Output
- 3 Ground



Type	Ordering code	Marking
B 682	B39401-B682-B510	Type, date code

Electrostatic Sensitive Device (ESD)

**Maximum ratings**

Ambient temperature	$T_A$	- 20/+ 80	°C	—
Storage temperature	$T_{stg}$	- 25/+ 85	°C	—
DC voltage	$V_{DC}$	0	V	between any terminals
AC voltage	$V_{pp}$	5	V	between any terminals

# B 682

## 403,18 MHz

### Characteristics

Ambient temperature	$T_A = 25 (35) \text{ }^\circ\text{C}$
Source impedance	$Z_S = 50 \text{ } \Omega$
Load impedance	$Z_L = 50 \text{ } \Omega$
Group delay aperture	0,25 MHz

				min.	typ.	max.	
<b>Insertion attenuation</b>	403,18 (402,78) MHz	$\alpha$	—	22,0	24,0		dB
Reference level for the following data							
<b>Center frequency</b>		$f_c$	402,18	403,18	404,18		MHz
<b>Pass bandwidth</b> ( $\alpha_{rel} \leq 3 \text{ dB}$ )		$B_{3dB}$	30,30	31,30	32,30		MHz
<b>Relative attenuation</b>		$\alpha_{rel}$					
	387,67 (367,28) MHz		—	3,0	4,7		dB
	418,70 (418,28) MHz		—	3,2	4,7		dB
Lower sidelobe	350,35 ... 376,17 MHz (350,00 ... 375,78) MHz		36,0	40,0	—		dB
Upper sidelobe	430,21 ... 450,45 MHz (429,78 ... 450,00) MHz		35,0	38,0	—		dB
<b>Reflected wave signal suppression</b>							
	0,16 $\mu\text{s}$ ... 3,0 $\mu\text{s}$ after main pulse		40,0	48,5	—		dB
<b>Amplitude</b>							
Amplitude ripple (p-p)	394,18 ... 412,18 MHz	$\Delta\alpha$	—	0,3	0,5		dB
<b>Group delay</b>	403,18 MHz	$\tau$	—	282	—		ns
Group delay ripple (p-p)	388,17 ... 418,20 MHz	$\Delta\tau$	—	11	18		ns
<b>Impedance</b> at 403,18 MHz							
	Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	90 $\parallel$ 5,8	—		$\Omega \parallel \text{pF}$
	Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	730 $\parallel$ 3,9	—		$\Omega \parallel \text{pF}$
<b>Temperature coefficient of frequency</b>		$TC_f$	—	-86	—		ppm/K

**Frequency response**

