

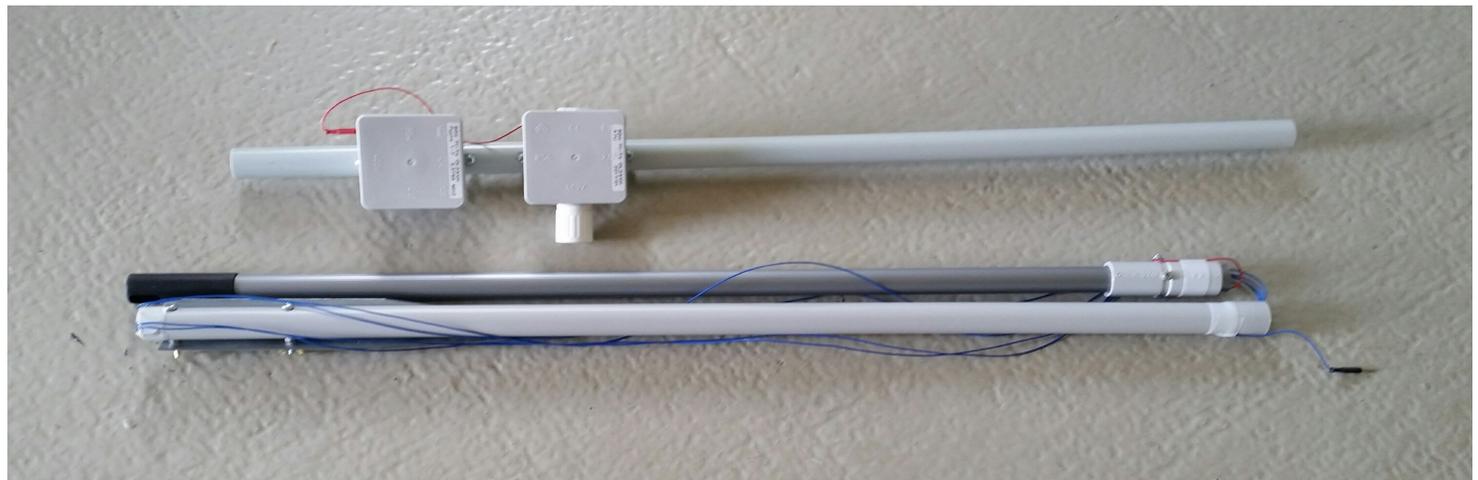
# Fuchsjagdantenne 2017 , Nutzung als KW-Portabelantenne

**Helmut - DL2AVH**

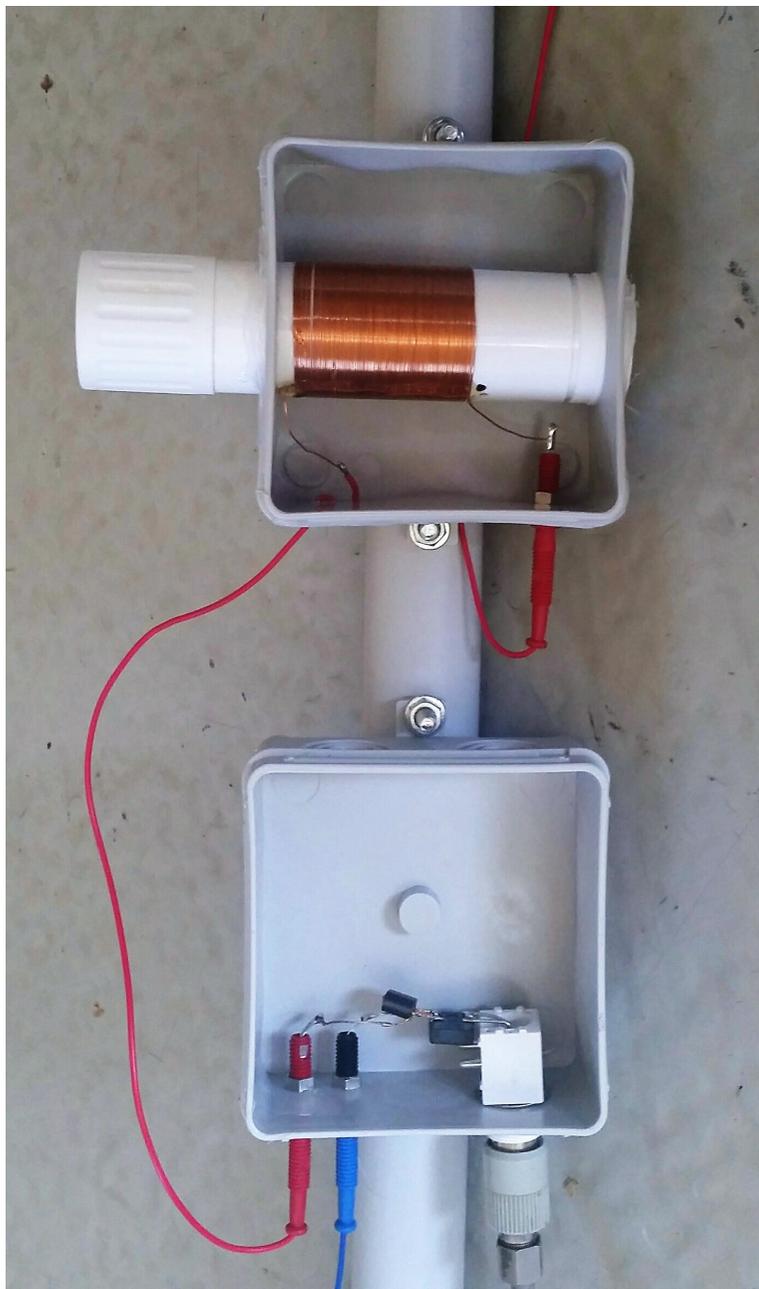


**Antenne ist in 3 x 0,8 m langen Elementen zerlegbar ( 2 x Installationsrohr und 1 x Besenstiel ) .**

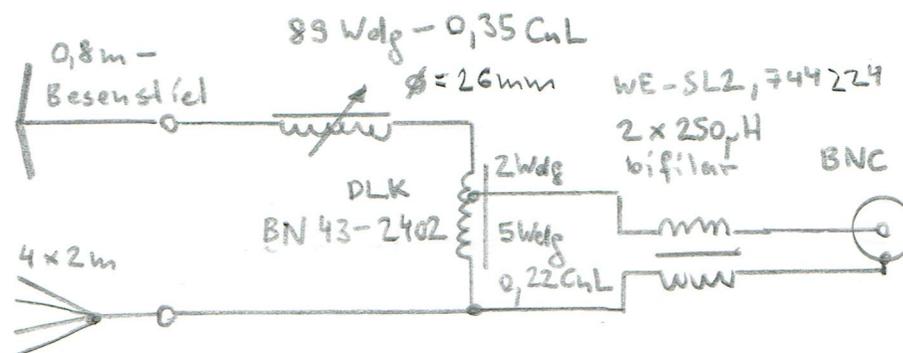
- einfacher und leichter Transport ( Gewicht = 611 g )
- einfacher und schneller Aufbau im Gelände
- schnelle Abstimmung mit den einfachen ATU



**Waldsassen 4/2018 und Silberthal 6/ 2018**



## 80m Besenstielantenne ( 0,8m )

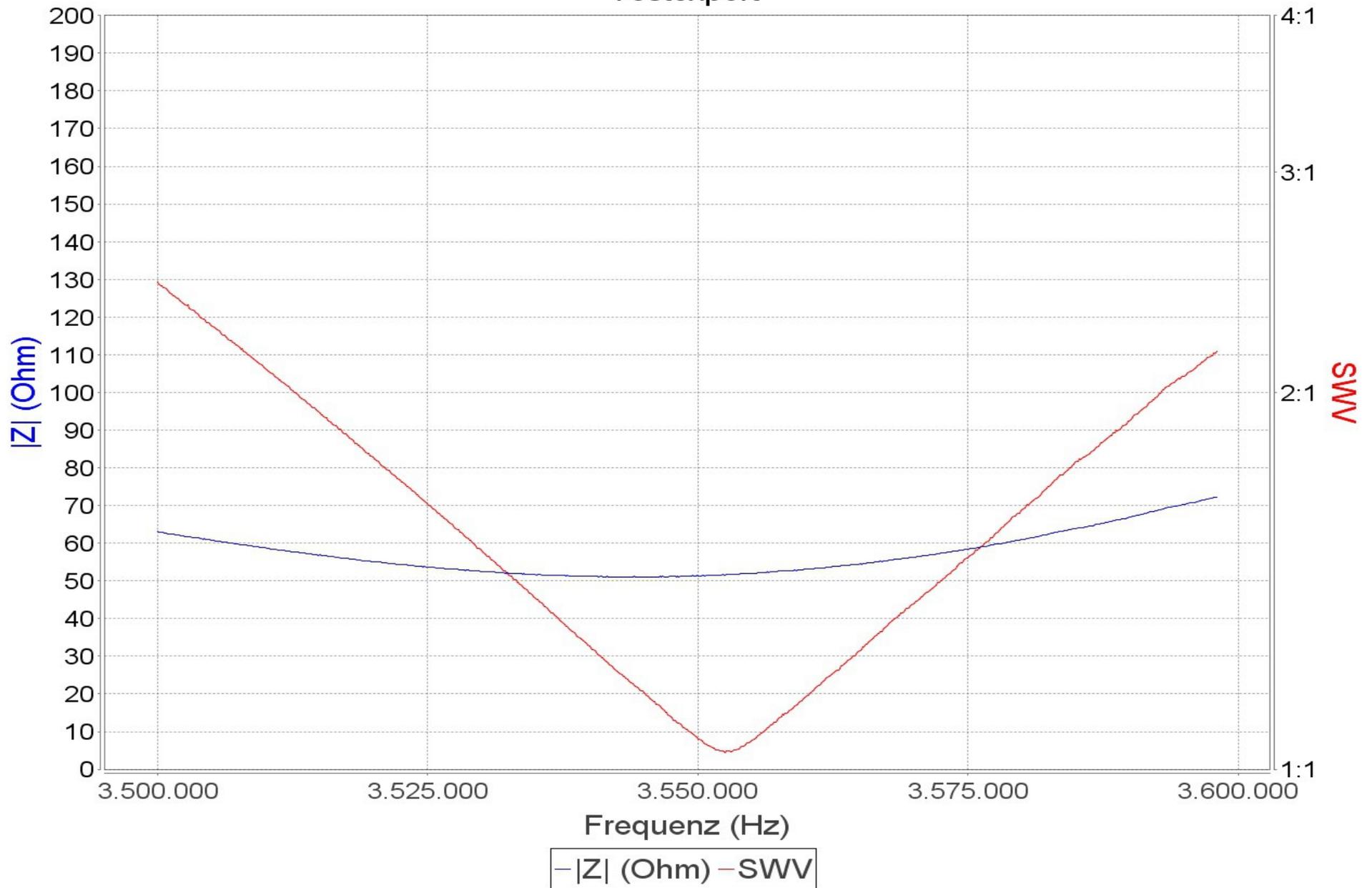


**ATU-Grundaufbau mit Klebestift D = 26 mm**  
 - im Schlitten des Klebestiftes sind die Ringkerne (1 x T68-2 und 3 x T80-2) geklebt  
 - die Spule hat 89 Wdg / 0,35 CuL

Am Fußpunkt hat das System etwa 100 Ohm  
 - mit Doppellochkern BN43-2402 ( 7/5 Wdg ) erfolgt die Tranformation auf 50 Ohm

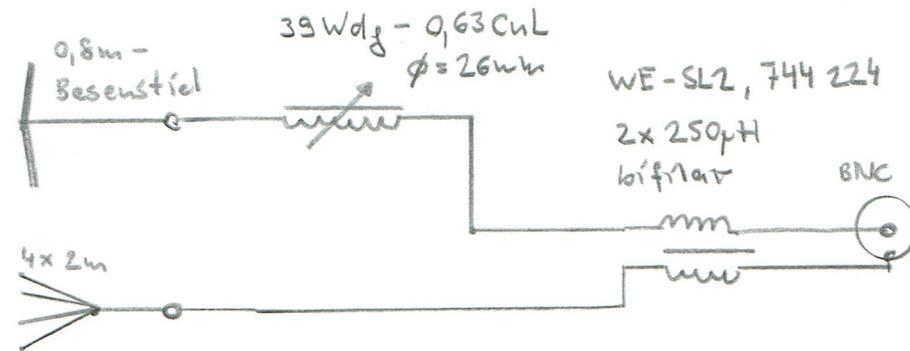
**Gleichtaktfilter SL2 zwischen Antenne und Sender**

# Testexport





## 40m Besenstielantenne ( 0,8m )

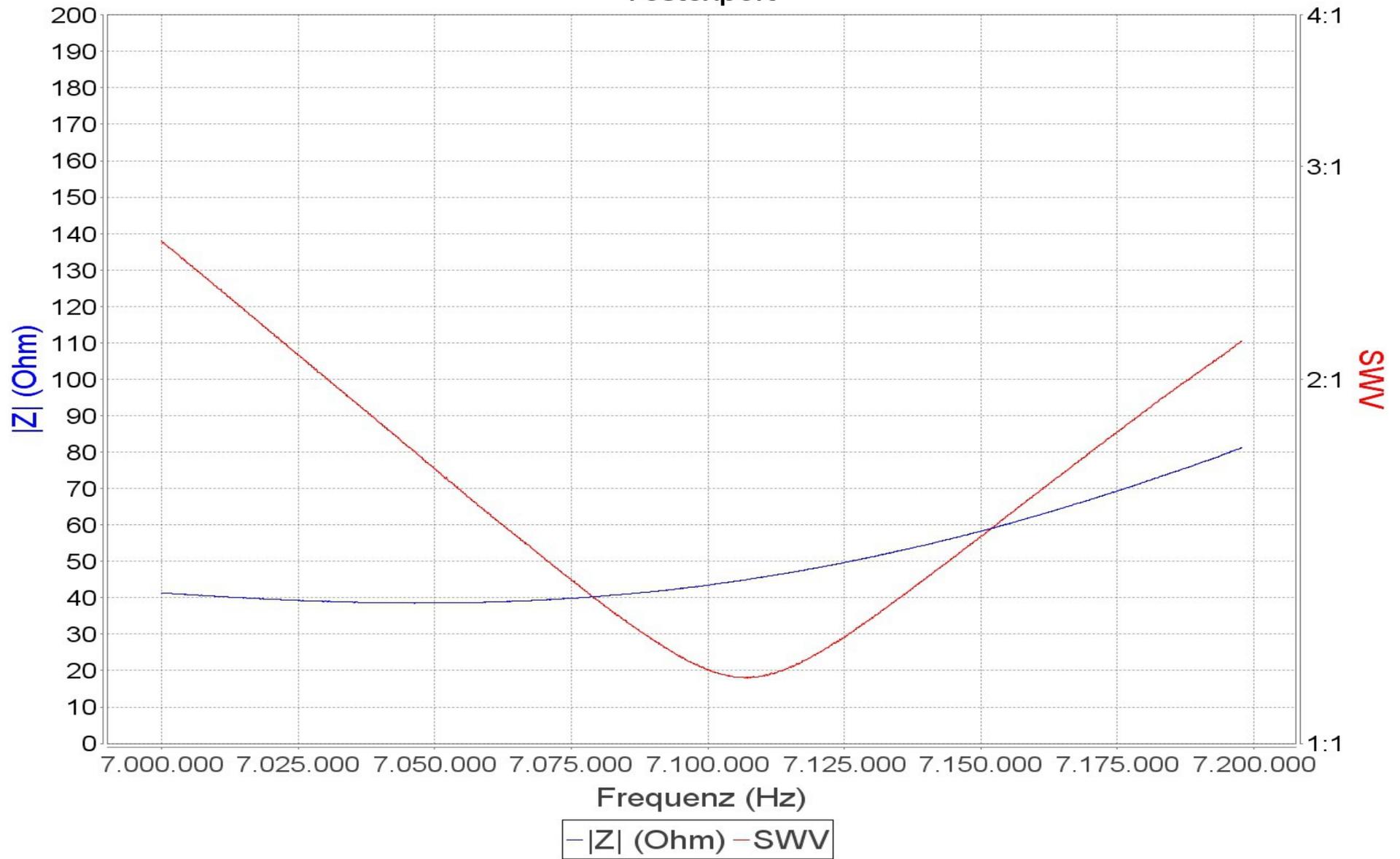


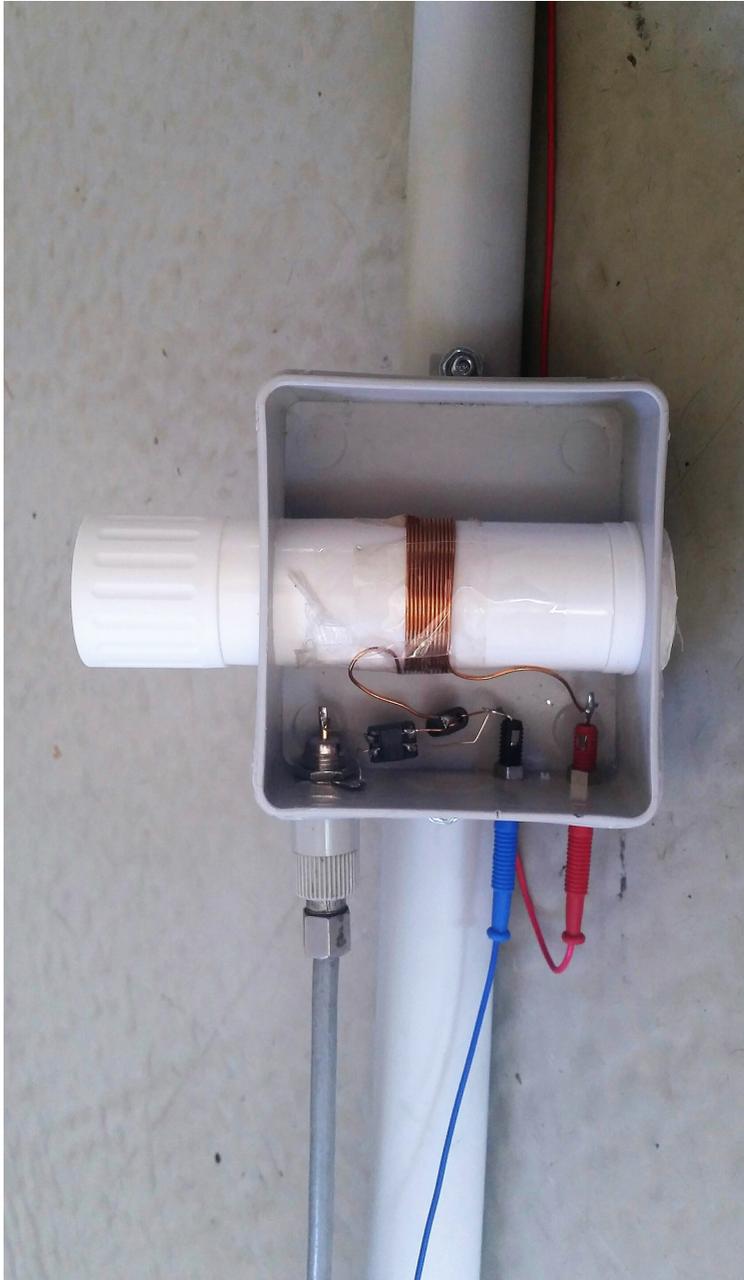
**ATU-Grundaufbau mit Klebestift D = 26 mm**  
**- im Schlitten des Klebestiftes sind die**  
**Ringkerne (1 x T68-2 und 3 x T80-2) geklebt**  
**- die Spule hat 39 Wdg / 0,63 CuL**

**Am Fußpunkt hat das System etwa 50 Ohm**

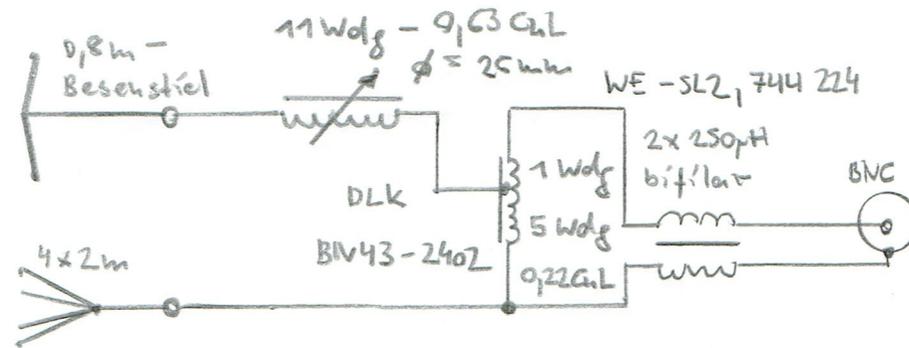
**Gleichtaktfilter SL2 ( 2x250 µH ) zwischen**  
**Antenne und Sender**

# Testexport





## 20m Besenstielantenne ( 0,8m )

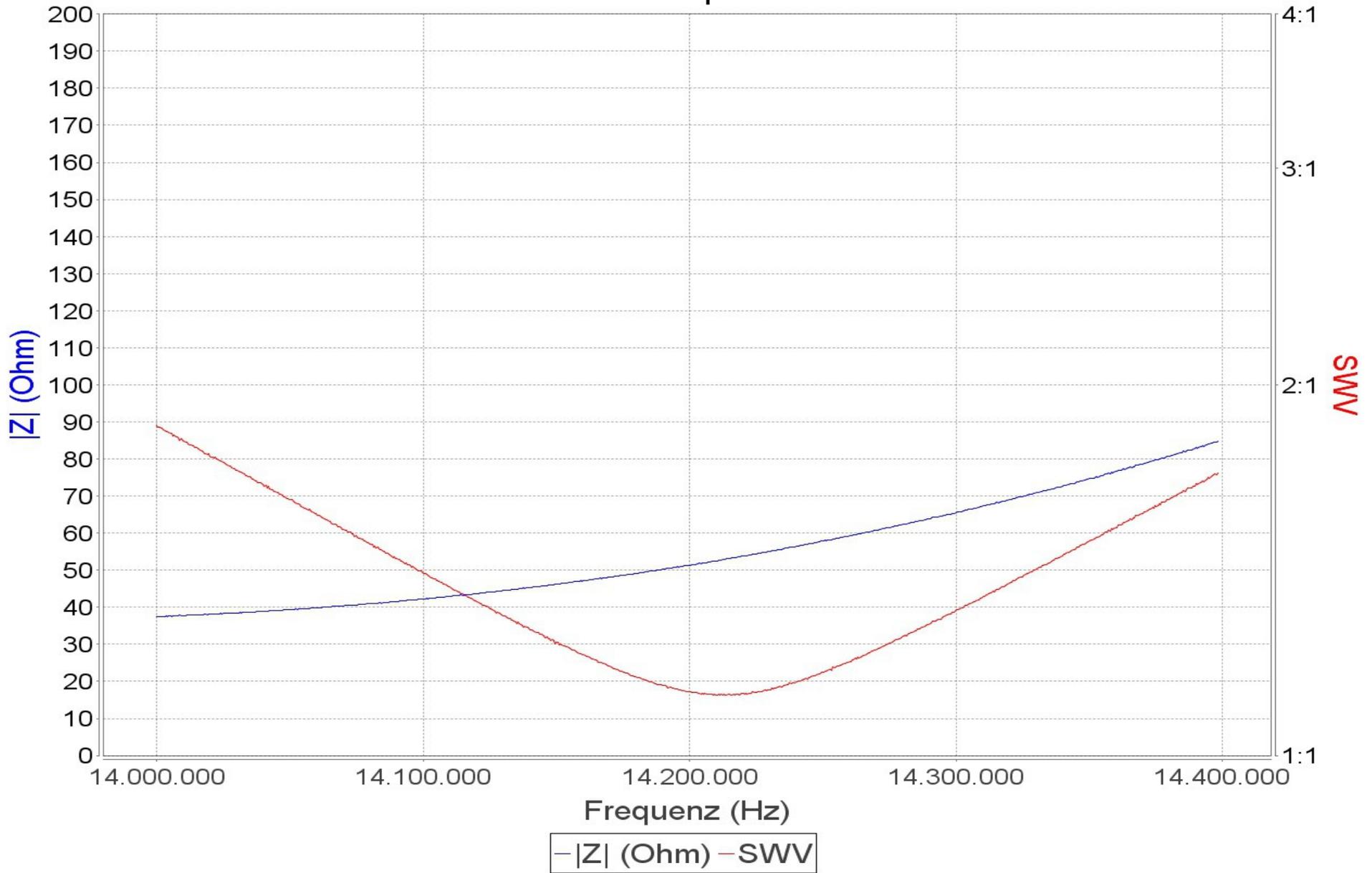


**ATU-Grundaufbau mit Klebestift D = 26 mm**  
 - im Schlitten des Klebestiftes sind die  
 Ringkerne (1 x T68-6 und 3 x T80-6) geklebt  
 - die Spule hat 11 Wdg / 0,63 CuL

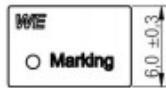
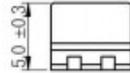
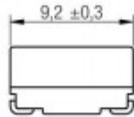
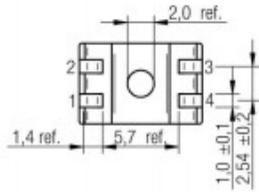
**Am Fußpunkt hat das System etwa 35 Ohm**  
 - mit Doppellochkern BN43-2402 ( 5/6 Wdg )  
 erfolgt die Transformation auf 50 Ohm

**Gleichtaktfilter SL2 zwischen Antenne und Sender**

# Testexport



### A Dimensions: [mm]



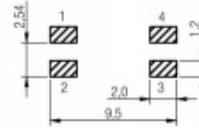
6.0 ±0.3



Scale - 2:1

Reference on drawing	Description
•	with dot: bifilar winding style without dot: sectional winding style
Marking	251 (Inductance Code)

### B Recommended land pattern: [mm]



Scale - 2:1

### C Schematic:



### D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 5 mV	L	2x 250	µH	±50%
Impedance		Z <sub>max</sub>	1800	Ω	typ.
Rated current	ΔT = 40 K	I <sub>R</sub>	1200	mA	max.
DC Resistance		R <sub>DC</sub>	2x 0.13	Ω	max.
Leakage inductance	1 MHz/ 1 mA	L <sub>S</sub>	60	nH	typ.
Insulation test voltage		U <sub>T</sub>	500	V (AC)	max.
Rated voltage		U <sub>R</sub>	80	V	

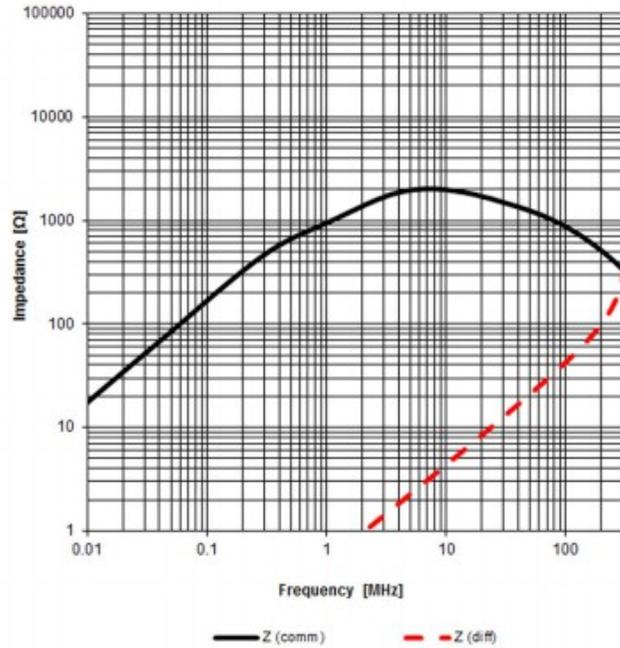
### E General information:

It is recommended that the temperature of the part does not exceed 125°C under worst case operating conditions.

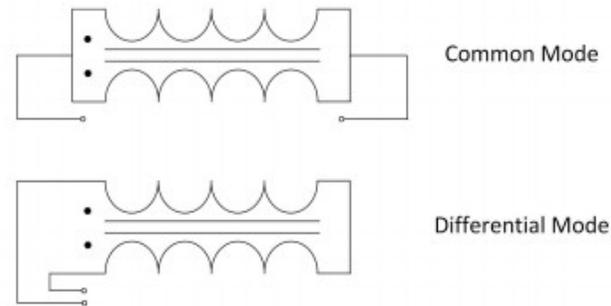
- Ambient temperature: -40°C to +85°C (referring to I<sub>R</sub>)
- Operating temperature: -40°C to +125°C
- Storage temperature (on tape & reel): -20°C to +40°C; 75% RH max.
- Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently

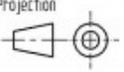
REV	DATE	BY	CHECKED	Projection	DESCRIPTION	
6.10	2014-07-15	SSi	SSi		<b>WE-SL2 SMD Common Mode Line Filter</b>	
6.9	2014-05-12	SSi	SSi			
6.8	2014-01-07	SSi	SSi	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	Order.- No.	
6.7	2013-11-19	SSi	SBa			<b>744224</b>
6.6	2013-04-24	SSi	SSi			
6.5	2013-02-05	SSi	SBa		A4	
6.4	2013-01-23	SSi	SBa			
6.3						

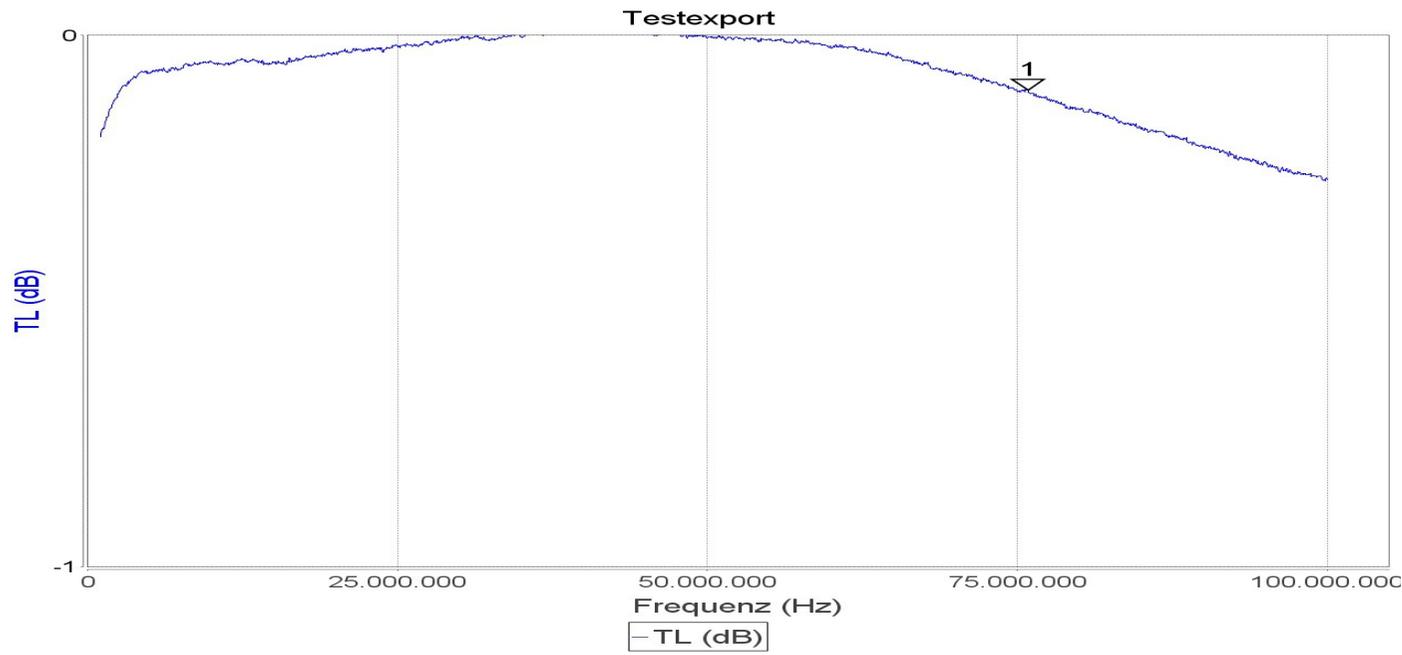
### F1 Typical Impedance Characteristics:



### Test Setup:



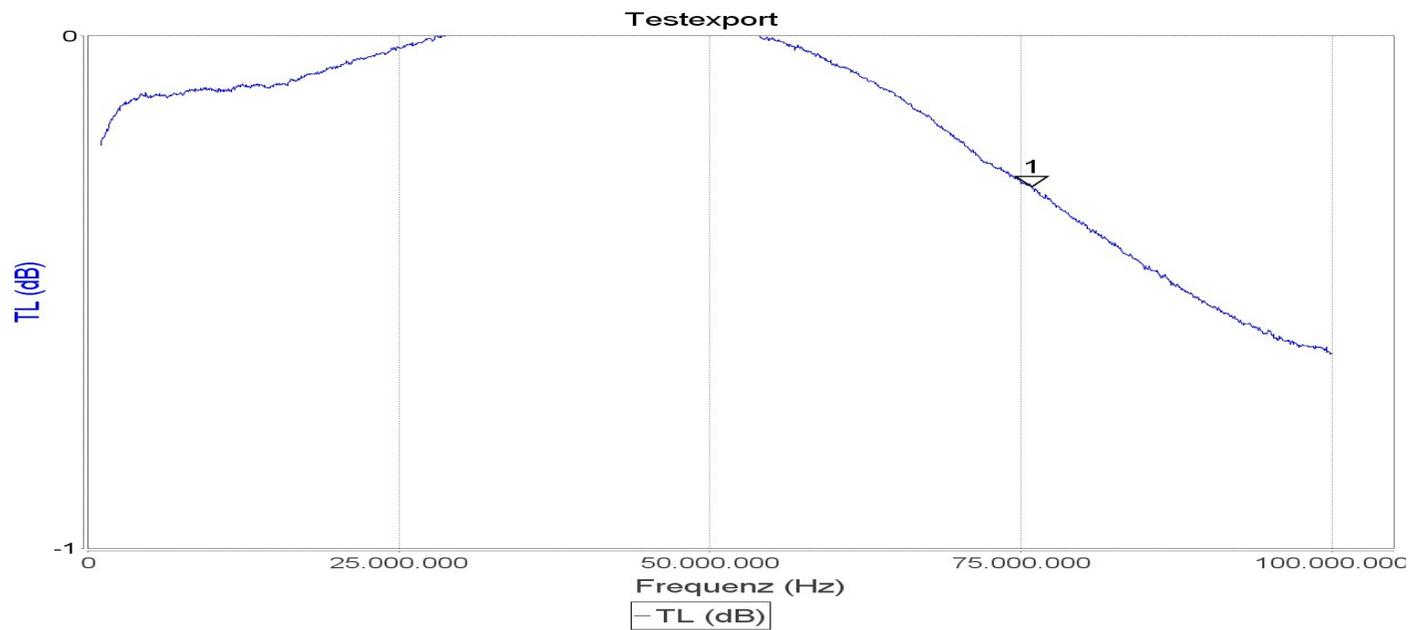
REV	DATE	BY	CHECKED	Projection	DESCRIPTION	
6.10	2014-07-15	SSt	SSt	 Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	<b>WE-SL2 SMD Common Mode Line Filter</b>	
6.9	2014-05-12	SSt	SSt		Order - No.	
6.8	2014-01-07	SSt	SSt		<b>744224</b>	
6.7	2013-11-19	SSt	SBa		SIZE	
6.6	2013-04-24	SSt	SSt		A4	
6.5	2013-02-05	SSt	SBa			
6.4	2013-01-23	SSt	SBa			



**Durchgangsverluste**

- kurzes Kabel

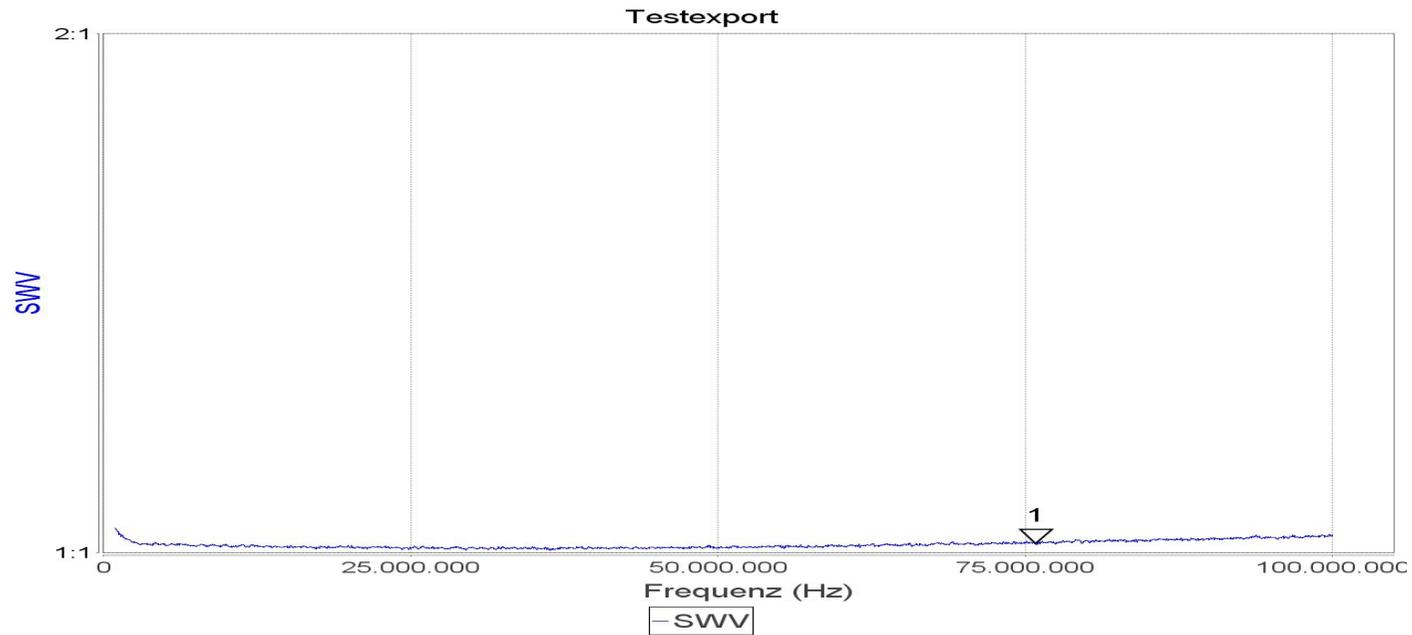
- Messung mit  
miniVNA



**Durchgangsverluste**

- kurzes Kabel mit  
2 x 250  $\mu$ H ( SL2 )

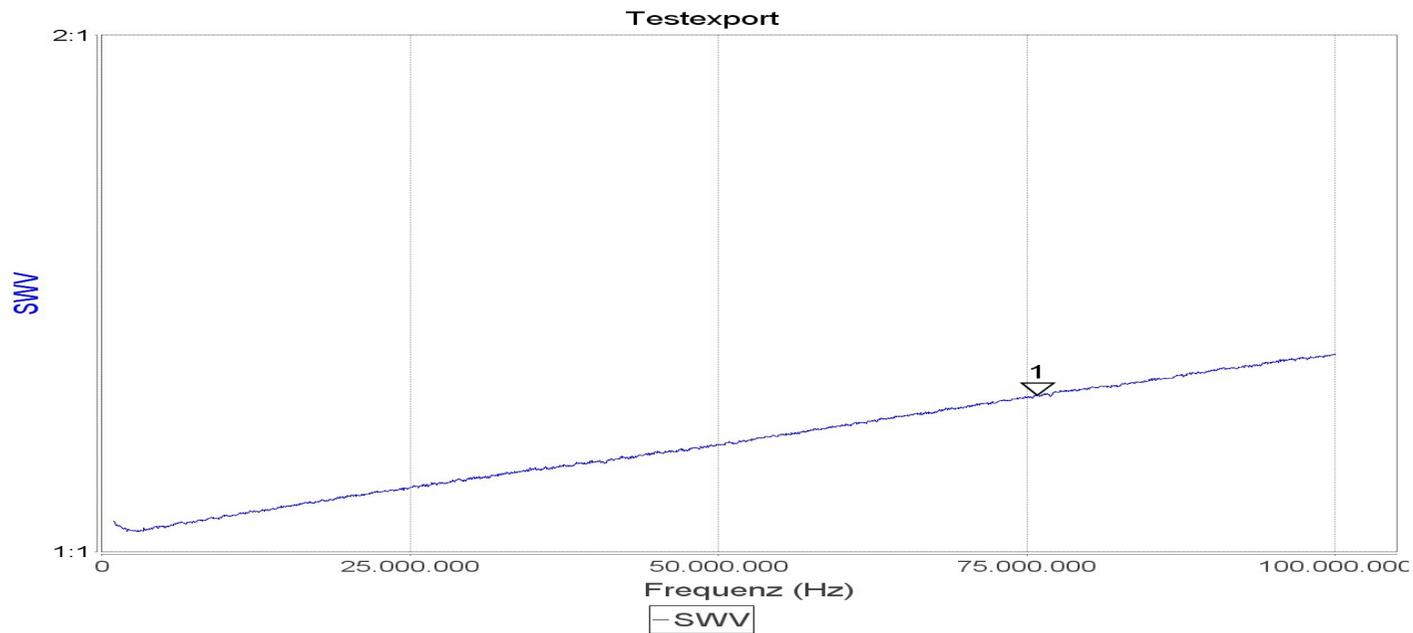
- Messung mit  
miniVNA



**Anpassung (SWV)**

**- kurzes Kabel**

**- Messung mit  
miniVNA**



**Anpassung (SWV)**

**- kurzes Kabel mit  
2 x 250 µH ( SL2 )**

**- Messung mit  
miniVNA**