

MAIN FEATURES

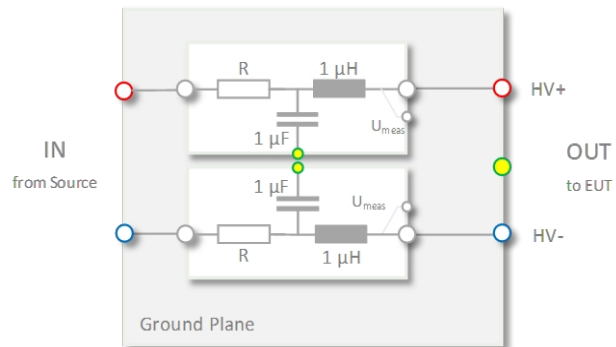
- 1 uH | 1 uF HV-AN / LISN
- according ISO 21498-2, MBN 11123, BMW GS 95023 and similar
- up to 250 A EUT current
- modular concept based on modules
- compact and air-cooled
- trolley available as accessory

HV-AN 1u-250 ISO21498 Series High Voltage Artificial Network

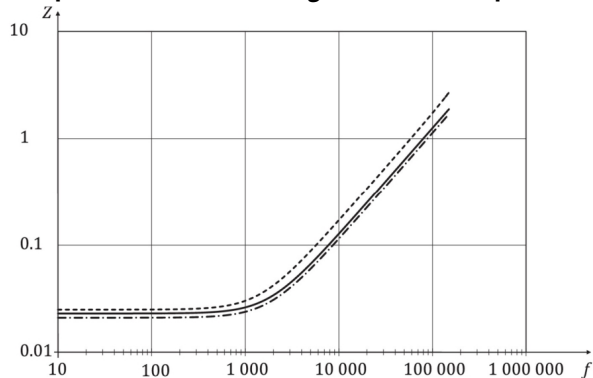
The HV-AN 1u-250 ISO 21498 are artificial networks used for electric vehicle high voltage component tests up to 250 ADC. The AN simulates the impedance of a vehicle harness and battery and is used for emission measurements. It meets the requirements of ISO 21498-2, MBN 11123, BMW GS95023 and similar standards.

The HV-AN 1u-ISO 21498 is based on a modular concept. Each module incorporates the 1 uH inductance, 1 uF capacitor and one resistance value. A pair of two HV-AN 1u-ISO21498 forms a complete set for HV+ and HV- supply lines to high voltage components. Separate sets are available for each resistance value and EUT current.

Topology according ISO 21498-2



Typical impedance curve according ISO 21498-2 for pair with 2 x 10m



Each set is tuned individually to meet the impedance requirements of ISO 21498-2.

Available models

The EUT max. current depends on the specific model.

Ambient temperature	EUT current max.	
	$T_A \leq 25^\circ\text{C}$	$T_A \leq 30^\circ\text{C}$
HV-AN 1u-250		
2 x 10 mΩ	283 Arms	255 Arms
2 x 25 mΩ	179 Arms	161 Arms
2 x 100 mΩ	89 Arms	81 Arms



Technical Specifications

Topology	$L_y 1 \mu H$, $C_y 1 \mu F$, $R 10 / 25 / 100 m\Omega$ (depending on model)
Impedance and tolerance	according ISO 21498-2
max. voltage	1000 VDC _{rms} , 500VAC _{rms}
Isolation voltage	1500 VDC (AE to GND)
EUT/AE connector	inner thread with hex bolt (M12, key width 19 mm)
Measurement connector	4mm safety banana (female), protected by fuse
Ground bar connector	bolt for screw nut M8

General Specifications

Dimensions	670 x 200 x 266mm
Weight	approx. 16 kg
Classification	Indoor use only
Operating temperature	0 °C to +30 °C
Storage temperature	-10 °C to +60 °C
Relative humidity	up to 90 % (no moisture condensation)
Mains supply	by external power supply, 12VDC, 1.4A (included in SET)

Model no. and options

Part number	Description
261309	HV-AN 1u-250-10-250-ISO21498-SET, set of 2x 10mΩ module with accessories
261310	HV-AN 1u-250-25-180-ISO21498-SET, set of 2x 25mΩ module with accessories
261312	HV-AN 1u-250-100-80-ISO21498-SET, set of 2x100mΩ module with accessories
261314	HV-AN 1u-250-AD100-80-SET, 2x 100mΩ resistance only module with accessories
260608	HV-AN 1u-ISO 21498 TR, trolley on wheels with ground plane and space to store 6 modules