

HV-AN 150

ARTIFICIAL NETWORK (AN) FOR AUTOMOTIVE, AIRBORNE AND MIL



- 5 μ H AN/LISN as defined in
- Low voltage part of CISPR 25, ECE No. 10 R06 and ISO 11452-1
- High voltage part of CISPR 12 (draft), CISPR 25, ECE No. 10 R05/R06, ISO 11452-1 and ISO/DTS 7637-4
- ISO 7637-2
- RTCA/DO-160G section 20
- MIL-STD-461F and G

Teseq's artificial network HV-AN 150 is the first universal solution which covers several applications and standards in the Automotive, Airborne and MIL range. It offers the right solution for both high current and high voltage EUTs and can be housed for having a shielded box, see option SME HV-AN 150, as proposed in CISPR 12 (draft), CISPR 25, ECE No. 10 R05/06, ISO 11452-1 and ISO/DTS 7637-4.

Mechanical specifications

Size (W x H x D):	180 mm x 180 mm x 230 mm
Weight:	approx. 4.2 kg

Technical specifications

EUT/AE sockets:	butterfly screw for binding posts with flat clamp (bolt diameter 8 mm)
RF socket:	N, 50 Ω
DC resistance (AE/EUT):	< 5 m Ω

Standard:	Low voltage part of CISPR 25, ECE No. 10 R06, ISO 11452-1	High voltage part of CISPR 12, 25, ECE No. 10 R05/R06, ISO/DTS 7637-4, ISO 11452-1	ISO 7637-2	CISPR 16-1-2 *1	MIL-STD-461F and G	RTCA/DO-160G
Frequency range:	100 kHz to 100 MHz (max. 200 MHz)	100 kHz to 100 MHz (max. 200 MHz)	100 kHz to 100 MHz	150 kHz to 108 MHz (max. 200 MHz)	150 kHz to 30 MHz (max. 200 MHz)	10 kHz to 400 MHz
Power ratings (EUT/AE)						
AC max. voltage:	350 V	500 V	500 V	350 V	350 V	500 V *2
DC max. voltage:	700 V	1000 V	1000 V	700 V	700 V	1000 V *2
Current max.:	150 A, 60 min	150 A, 60 min	150 A, 60 min	150 A, 60 min	150 A, 60 min	150 A, 60 min
Test voltage:	1500 VDC, 2 s	1500 VDC, 2 s	1500 VDC, 2 s	1500 VDC, 2 s	1500 VDC, 2 s	1500 VDC, 2 s
Simulated impedance (EUT):	5 μ H 47.6 Ω	5 μ H 47.6 Ω	5 μ H 50 Ω	5 μ H + 1 Ω 47.6 Ω	5 μ H 49.5 Ω	5 μ H 49.5 Ω
Max. Limits:	\pm 20% (magnitude)	\pm 20% (magnitude)	\pm 10% (magnitude)	\pm 20% (magnitude) \pm 11.5 deg (phase)	\pm 20% (magnitude)	\pm 20% (magnitude) 100 kHz to 150 MHz, special limits above and below

*1 The isolation specification of CISPR 16-1-2 requires a dedicated network for this standard only.

*2 dependent on external 10 μ F capacitor

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EXT 10uF, option external 10 μ F
capacitor for RTCA/DO-160G

Model No. and options

Part number	Description
253552	HV-AN 150 5 μ H high voltage artificial network, unshielded, butterfly screw, for Automotive, Airborne and MIL conform with CISPR 12, CISPR 25, ECE No. 10 R06, ISO 11452-4, ISO 7637-2, MIL-STD-461F and G, RTCA / DO-160G and the HV part of CISPR 12 (draft), CISPR 25, ECE No.10 R05 / R06, ISO 11452-1 and ISO 7637-4
97-253552	HV-AN 150-TC Traceable calibration (ISO17025), order only with the device
98-253552	HV-AN 150-ACC Accredited calibration (ISO17025)
256359	EXT 10uF 10 μ F / 1000 V capacitor for external connection to HV-AN 150's AE port, required for RTCA/DO-160G
259600	SME HV-AN 150 Shielded metal enclosure for two HV-AN 150
257521	A 50-N Termination 50 Ohms, N type, male, 1 Watt, 4 GHz

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HV-AN 150, view to the EUT port



HV-AN 150, view to the AE port