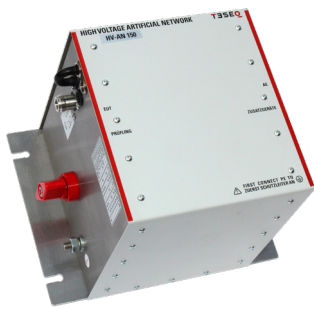




# HV-AN 150 ARTIFICIAL NETWORK (AN) FOR AUTOMOTIVE, AIRBORNE AND MIL



- 5  $\mu$ 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 $\Omega$   |
| DC resistance (AE/EUT): | < 5 m $\Omega$   |

| 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 $\mu$ H    47.6 $\Omega$                                | 5 $\mu$ H    47.6 $\Omega$   | 5 $\mu$ H    50 $\Omega$ | 5 $\mu$ H + 1 $\Omega$    47.6 $\Omega$         | 5 $\mu$ H    49.5 $\Omega$       | 5 $\mu$ H    49.5 $\Omega$  |
| Max. Limits:               | $\pm$ 20% (magnitude)                                     | $\pm$ 20% (magnitude)  | $\pm$ 10% (magnitude)    | $\pm$ 20% (magnitude)<br>$\pm$ 11.5 deg (phase) | $\pm$ 20% (magnitude)            | $\pm$ 20% (magnitude)<br>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  $\mu$ F capacitor

# HV-AN 150 ARTIFICIAL NETWORK (AN) FOR AUTOMOTIVE, AIRBORNE AND MIL



**EXT 10uF, option external 10  $\mu$ F capacitor for RTCA/DO-160G**

## Model No. and options

| Part number | Description   |
|-------------|---|
| 253552      | HV-AN 150<br>5 $\mu$ 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<br>Traceable calibration (ISO17025), order only with the device  |
| 98-253552   | HV-AN 150-ACC<br>Accredited calibration (ISO17025)  |
| 256359      | EXT 10uF<br>10 $\mu$ F / 1000 V capacitor for external connection to HV-AN 150's AE port, required for RTCA/DO-160G   |
| 259600      | SME HV-AN 150<br>Shielded metal enclosure for two HV-AN 150   |
| 257521      | A 50-N<br>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**