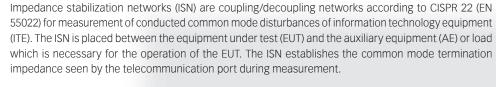


ISN T2A IMPEDANCE STABILIZATION NETWORK (ISN) FOR UNSHIELDED BALANCED PAIRS





- For use with one unshielded balanced pair
- CISPR 22, Ed.5.2, 2006 and EN 55022
 Sept. 2006 (IEC/CISPR 22: 2005 modified) for Cat.3 and Cat.5
- Changeable pin-arrangements with RJ11 and RJ45
- Can be used as CDN for IEC 61000-4-6 immunity tests

The ISN T2A is designed for measurements on one unshielded balanced pair. The principle drawing is shown at D.2 in CISPR 22, Ed.5.2, 2006 and EN 55022 Sept. 2006 (IEC/CISPR 22: 2005 modified). The ISN T2A consists of one basic network (ISN T200A) with D-Sub-25- connectors and special adapter sets. A set of adapters consists of LCL adapters to realize the longitudinal conversion loss (LCL)- requirements for the EUT-side in relation to the used cable category (cat.3, cat.5) and a connection adapter for the AE-side.

Technical specifications

Frequency range:	150 kHz to 80 MHz
Line parameters:	1 pair
Power rating (EUT- and AE Port)	
AC max. voltage (line to ground):	63 V
DC max. voltage (line to ground):	100 V
Current max :	400 mA
Test voltage:	200 VDC, 2 sec
Common mode impedance (EUT Port)	
150 kHz to 30 MHz:	150 Ω ±20 Ω
30 MHz to 80 MHz:	150 Ω ±40 Ω
Phase angle (EUT Port) 150 kHz to 30 MHz:	0° ±20°
Coupling path (In/Out-port/EUT)	
Connection:	BNC 50 Ω
RF voltage:	<15 V
Frequency range:	150 kHz to 80 MHz
Voltage division factor (RF input to EUT port)	
150 kHz to 30 MHz:	10 dB ±1 dB
30 MHz to 80 MHz:	10 dB ±2 dB
Transmission bandwidth (wanted signal) EUT/AE B3 dB: *	> 100 MHz sin.
LCL (EUT) *)	
Cat. 3 150 kHz to 30 MHz (corner frequency 2 MHz):	55 dB to 39.3 dB ±3 dB
Cat. 5 150 kHz to 2 MHz:	65 dB ±3 dB
Cat. 5 2 MHz to 30 MHz:	65 dB to 49.3 dB +4.5/-3 dB
Decoupling of common mode disturbances (EUT / AE)	
150 kHz to 1.5 MHz:	≥35 dB to ≥55 dB
1.5 MHz to 30 MHz:	≥55 dB
*) all balanced parameters are in relation to a symmetrical load of	f 100 Ω



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Mechanical specifications

Size (W x H x D) (basic network):	105 x 65 x 110 mm ³
(basic network with adapters):	105 x 65 x 190 mm ³
Weight:	approx. 550 g

Application

Pin-arrangement						
	Connector	a1	b1	a2	b2	
ADS T246 (UP0 with RJ45)	RJ45	3,4	5,6	-	-	
ADS T2X0 Changeable adaptor wiring	RJ11-6, R	J45 and	1 mm			
Optional:						
ADS T216 UPO with RJ11)	RJ11	2,3	4,5	-	-	





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Additional application

The described ISN T2A is appropriate for immunity tests of IEC 61000-4-6. Optional available are the parts for the level setting (test set-up calibration) CAL U100 (150 Ω /50 Ω adapter), SAR T800 (common mode adapter for RJ45), SAR T600 (common mode adapter for RJ11), SAR T801 (common mode adapter for Sub-D) and TRA U150 (150 Ω termination).

Delivery information

Part number	Description
248714	ISN T2A ISN for one unshielded balanced pair with adapter sets ADS T246 and ADS T2X0 in suitcase, cable cat.3 and 5
97-248714	ISN T2A-TC Traceable calibration (ISO17025), order only with ISN T2A
242071	ADS T216 Adapter set ADS T216, order only with ISN T2A
248580	CAS ISN Calibration kit for ISN T8 and ISN T4A, measuring parameters: CM impedance, phase angle, voltage division factor and LCL, traceable calibration and certificate included
248632	CAS ISN extension for T2A Adapter parts for calibration of ISN T2A, required CAS ISN
239901	CAL U100 Universal calibration unit (150 Ω /50 Ω adapter)
242438	SAR T600 Calibration adapter part for ISNs with RJ11 connector
242439	SAR T800 Calibration adapter part for ISNs with RJ45 connector
242430	SAR T801 Common mode adapter for Sub-D
239903	TRA U150 Universal termination resistor 150 Ω AE side

