

Compact Transient Immunity Simulator

TIS 700x



As per

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|------------------------|----------------------------|
| > ISO 7637-2-2011 | > Case New Holland |
| > ISO 7637-3-2016 | ENS0310 |
| > GB/T 21437.2-2008 | > Cummins 14269 |
| > EN 301489-1 | (982022-026) |
| > EN 301489-17 | > DaimlerChrysler |
| > EN 301489-24 | PF-10540 |
| > EN 300329 | > GJB 181A |
| > EN 300340 | > Audi(Reference vehicles) |
| > EN 300342-1 | > Chrysler PF-9326 |
| > BMW-(Airbag ECU) | > Chrysler CS-11809(2009) |
| > BMW 600 13.0(Part 2) | > Chrysler CS-11979 |
| > BMW GS 95002(1999) | > Chrysler DC-11224 Rev.A |
| > BMW GS 95002(2001) | |

Description

The TIS700 series for automotive transient unifies the capabilities of an EFT/Burst P3a/3b, micro pulse P1/2a and the required coupling network into one box. The TIS700 series are equipped to meet all international, car manufacturer specifications, and kinds of waveform modules can be customized as per user's requirements. The current of built-in coupling network ranges up to 200A depending on the model. The built-in coupling network can be used and controlled by any unit of the LDS200 series, APG series and APS series to be the central EUT output port. Different simulators can be connected together via data bus and connected to PC via Ethernet to be a whole test system.

Feature

- > 5.7 inch color touch screen front panel operation
- > Internal EFT/burst module > Internal micro-pulse module
- > As per ISO 7637 JASO SAE NISSAN
- > Internal 60V/30A CDN (incl. load dump coupling), Max. Current up to 200A (200A customized)
- > Via CN25 Control external load dump and battery simulation via CN25
- > DUT voltage and current detection and over current protection function
- > Emergency stop function > internal mains switch
- > Ethernet, RJ45 port for remote control, print and documentation.

Application

- > Automotive

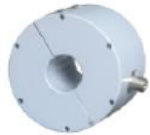





Technical parameters	
Micro pulse module P1	
Test voltage	3-600V
Test voltage	Negative
Rise time Tr	0.5us - 1us
	1.5us - 3us
	No load
Duration Td	50us \pm 20% no load
	12us \pm 20% matching load
	1ms \pm 20% no load
	1ms \pm 20% 50 ohm matching load
	2ms \pm 20% no load
	1.5ms \pm 20% 10 ohm matching load
	0.2ms \pm 20% no load
	0.3ms \pm 20% no load
0.5ms \pm 20% no load	
Source impedance	2 Ω , 4 Ω , 10 Ω , 30 Ω , 50 Ω
Number of test	1-9999
DUT voltage monitoring	10:1
DUT current monitoring	10A:1V
Pulse interval	0.2s-60s (the shortest interval depends on output voltage)
Coupling mode	ICC,DCC(50us \pm 20% no load waveform)

EFT/Burst module P3a/3b	
Test voltage	25-700V
Polarity	P3b positive,P3a negative
Rise time Tr	5ns \pm 30% into 50 ohm load
	5ns \pm 30% into 1,000 ohm load
Duration Td	150ns - 45/+45ns into 50 ohm load
	150ns - 45/+45ns into 1,000 ohm load
Source impedance	50 Ω
Pulse number	1-200
Burst interval	50ms-999ms
Pulse frequency	0.1kHz-200kHz
Test duration	1s-50000s
Coupling mode	CCC,DCC
output	Direct output
	By 50 Ω coaxial connector (for test connected to capacitance coupling clamp)

Micro pulse module P2a	
Test voltage	3-150V
Test voltage	Positive
Rise time Tr	0.5us - 1us
	1.5us - 3us
	No load
Duration Td	50us \pm 20% no load
	12us \pm 20% matching load
Source impedance	2 Ω
Number of test	1-9999
DUT voltage monitoring	10:1
DUT current monitoring	10A:1V
Pulse interval	0.2s-60s (the shortest interval depends on output voltage)
Coupling mode	ICC,DCC

General parameters		
Mains supply	AC 110/220V, \pm 10%, 45-65Hz	
Environment temperature	15-35 $^{\circ}$ C	
Relative humidity	35%-85%RH (no condensing)	
Dimension	Output current 30A: 4U	
	Output current 60A and 100A: 6U	
	Output current 200A: 8U	
Weight	Approx. 20kg	
Trigger	Automatic, manual	
Network	Internal CDN 60V/30A current up to 200A	
Input	DUT supply	DC voltage from APS, APG or other DC source
	Pulse 5,7	TIS 700 network superimposing Pulse 5 and Pulse 7
Output	LDS200 input	Central DUT output port
	Coaxial output port	To connect capacitance coupling clamp as per ISO7637-3

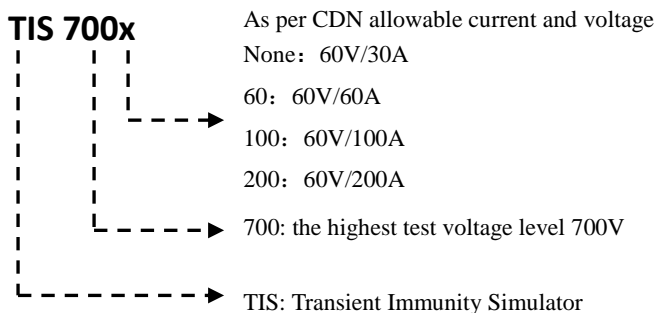
Standard equipped
Simulator, user manual, inspection report, warranty, test cables, power cords, DUT power cords, grounding cables

Options	Main parameters	
1. Inductive coupling clamp BCIP -200 	Frequency range : 10kHz ~ 200MHz	
2. Calibration fixture BCICF-400 	Frequency range: DC-400MHz Characteristic impedance: 50Ω	
2.100nF coupling capacitor DCP-100N 	capacitance: 100nF withstand voltage: 200V	
3.100pF coupling capacitor DCP-100P 	capacitance: 100pF withstand voltage: 200V	
4. Calibration resistance PVK 	Model	Impedance[Ω]
	PVK 05	0.5
	PVK 1	1
	PVK 2	2
	PVK 4	4
	PVK 10	10
	PVK 20	20
	PVK 30	30
5.Capacitance coupling clamp V-EFTC 	coupling capacitor: 100pF~200pF DC 5kV	
6.Software	AUTO Lab Support windows XP and Windows7 and above, convenient operation, self-defined test program for functions and standard library;	

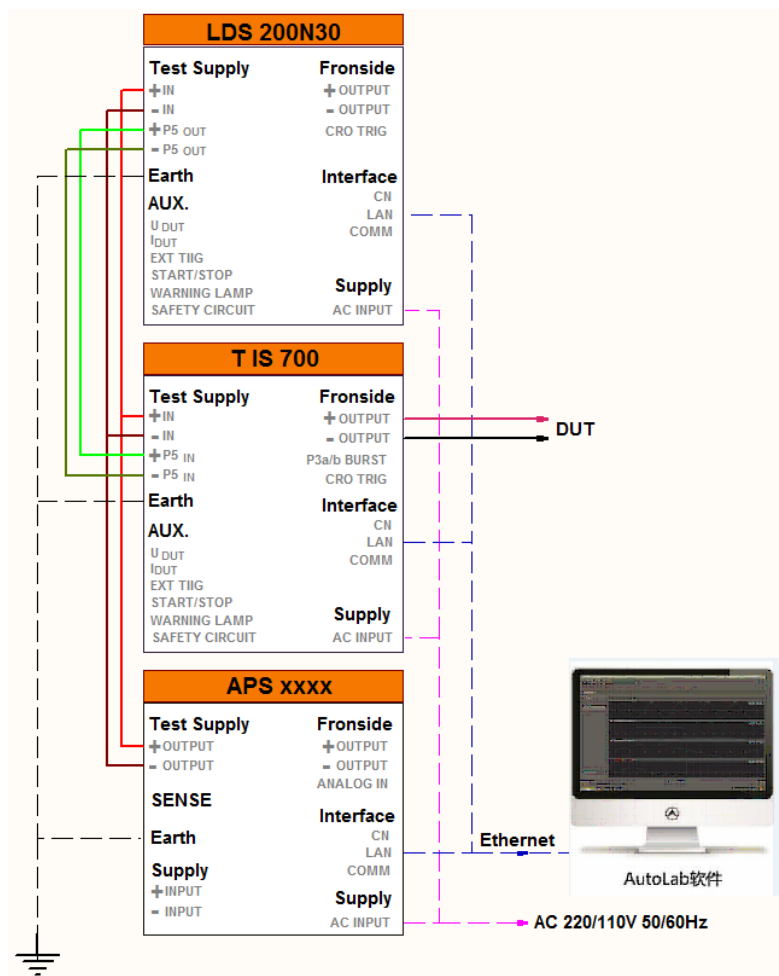
Models	
TIS 700	CDN: Max. 60V/30A
TIS 700-60	CDN: Max. 60V/60A
TIS 700-100	CDN: Max. 60V/100A
TIS 700-200	CDN: Max. 60V/200A

	<p>Automatic/manual identifying the connected equipments and automatic configuration;</p> <p>Based on the template function, users can flexible generate test reports.</p>
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Naming rules:



Test connection:





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