

CA ISO

CALIBRATION SET FOR AUTOMOTIVE TRANSIENTS



FOR TESTS ACCORDING TO ...

- › ISO 16750-2
- › ISO 7637-1:1990
- › ISO 7637-2:1990
- › ISO 7637-2:2004
- › ISO 7637-2:2011

AUTOMOTIVE TEST PULSE VERIFICATION UNDER LOADED CONDITIONS

In accordance with the pulse verification requirements given in Annex C of ISO 7637-2:2011 and Annex A of ISO 16750-2:2012, test pulses generated by automotive transient generators need to be verified both under no-load (open circuit verification) and loaded conditions with specified loads. The values of the load resistors is specified and are equal to the generator's internal source impedance defined for the corresponding test pulse.

The CA ISO is a resistor box containing all load resistors required to verify micropulse and load dump generators according to international standards and manufacturer requirements.

HIGHLIGHTS

- › One single load resistor box
- › Includes all required load resistor values
- › Highly accurate resistors (+/-1%)
- › High temperature stability
- › Resistors with very low inductance
- › Resistor values 0.5ohm, 1ohm, 2ohm, 4ohm, 10ohm, 20ohm and 50ohm

APPLICATION AREAS



AUTOMOTIVE

TECHNICAL DETAILS

BENEFITS

SELECTION OF LOAD RESISTORS

The set of load resistors has been well selected in order to meet the wide range of source resistors specified in various national/international standards and vehicle manufacturer specifications.

The following load resistors are most used:

0.5 Ohm for Load Dump pulse verification as per a number of manufacturer specifications

1.0 Ohm for Load Dump pulse verification as per a number of manufacturer specifications

2.0 Ohm for verification of pulse 2a and pulse 5 as per ISO 7637-2 and various manufacturer specifications

4.0 Ohm for verification of pulses 1, 2 and Load Dump pulse 5 as per various manufacturer specifications

10.0 Ohm for verification of pulses 1 and 2 as per ISO 7637-2 and various manufacturer specifications

20.0 Ohm for verification of pulse 1 as per ISO 7637-2 and various manufacturer specifications.

All load resistors are non-inductive and have a tolerance better than 1% as per standard requirements. They show sufficient power dissipation for the transient pulse energy.

USE OF CA ISO

The CA ISO verification box is directly plugged into the CDN outputs of the transient generator. The required load resistor is selected by the bridge connector. The waveform across the load resistor is best measured by a 100:1 voltage probe with sufficient bandwidth and voltage capability. EM TEST recommend a bandwidth of 20MHz minimum and a voltage measuring capability of 1,000V.



TECHNICAL DETAILS

CA ISO CALIBRATION SET

LOAD RESISTORS FOR MICROPULSE AND LOAD DUMP
PULSE VERIFICATION

Built-in resistor values	0.5ohm, 1ohm, 2ohm, 4ohm, 10ohm, 20ohm, 50ohm, selectable
Resistor tolerance	+/- 1%
Connectors	4mm safety lab connectors
	Fits to all EM TEST automotive micropulse generators, Series MPG 200 and UCS 200 and all EM TEST Load Dump generators, Series LD 200

OPTIONS

Adapters	To connect the CA ISO to high-current coupling networks
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Information about scope of delivery, visual design and technical data correspond with the state of development at time of release. Subject to change without further notice.