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**INDUSTRY STANDARD OF THE
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**Calibration Specification for Electrical Fast Transient/Burst
Simulators
(English Translation)**

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Introduction

This specification is based on JJF 1071-2010 "Rules for the preparation of national metrological calibration specifications", JJF 1059.1-2012 the requirements in the Measurement and Expression of Uncertainty are written.

This specification refers to GB/T 17626.4-2008 "Electromagnetic compatibility test and measurement technology electric fast transient pulse Group Immunity Test and IEC 61000-4-4:2012 Electromagnetic Compatibility Test and Measurement Technology Electrical Fast Transient Pulse the relevant provisions in the rushing group immunity test are prepared.

This specification is the first release.

Electrical Fast Transient Burst Simulator Calibration Specification

1 Scope

This specification is applicable to meet the requirements of GB/T 17626.4-2008 "Electromagnetic compatibility test and measurement technology Variable Pulse Group Immunity Test and IEC 61000-4-4:2012 Electromagnetic Compatibility Test and Measurement Technology Electrical fast transient burst generator, coupled decoupling network and capacitive coupling required in transient burst immunity test the calibration of the clamp is also applicable to the part of the electric fast transient burst simulator in the electromagnetic compatibility immunity test system.

calibration.

2 reference files

This specification refers to the following documents.

GB/T 17626.4-2008 Electromagnetic compatibility test and measurement technology Electrical fast transient burst immunity test IEC 61000-4-4:2012 Electromagnetic Compatibility Test and Measurement Techniques Electrical Fast Transient Burst Immunity Test (Electromagneticcompatibility-Testingandmeasurementtechniques-Electricalfast Transient/burstimmunitytest) for dated references, only dated versions apply to this

specification; undated quotations the latest version (including all amendments) applies to this specification.

3 terms and units of measure the following terms and definitions apply to this specification.

3.1 Burst burst

A limited number of clearly identifiable pulse sequences or oscillations of limited duration.

3.2 coupling clip couplingclamp Coupling the disturbance signal to the test line in a common mode without any electrical connection to the line under test, an equipment with specified dimensions and characteristics.

3.3 Coupling network A circuit used to transfer energy from one line to another.

3.4 Decoupling network Used to prevent electrical fast transient voltages applied to the device under test from affecting other devices, equipment, and systems that are not being tested System circuit.

4 Overview

Electrical fast transient burst simulator (hereinafter referred to as burst simulator) includes electrical fast transient bursts , coupled decoupling network and capacitive coupling clips. The pulse group simulator is mainly used to simulate propagation along the power grid or from signal line coupling.

The impact of the electrical fast transient burst on the electronic equipment, and the resistance of the tested electronic equipment the ability of a fast transient burst. Electrical fast transient pulse group generator (hereinafter referred to as pulse group generator) is mainly composed of high voltage