



DRAFT INDIAN STANDARD IN WIDE CIRCULATION

Reference : LITD 09/T-24955

Date : 26 February 2024

TECHNICAL COMMITTEE : Electromagnetic Compatibility, LITD 09

To,

All concerned

Dear Madam/Sir,

The following document has been prepared by the Electromagnetic Compatibility Sectional Committee, LITD 09. Please [click here](#) to view the document.

Document Number : LITD 09 (24955) WC

Title of the document : Electromagnetic Compatibility EMC Part 4: Testing and Measurement Techniques

Section 6: Immunity to Conducted Disturbances Induced by Radio-Frequency Fields First Revision

Document Type : Revision of Indian Standard (IS 14700 : Part 4 : Sec 6 : 2016)

This document has following salient features which may require specific attention for your valuable comments:

IEC 61000-4-6: 2023 relates to the conducted immunity requirements of electrical and electronic equipment to electromagnetic disturbances coming from intended radio-frequency (RF) transmitters in the frequency range 150 kHz up to 80 MHz.

NOTE 1 Product committees might decide to use the methods described in this document also for frequencies up to 230 MHz (see Annex B) although the methods and test instrumentation are intended to be used in the frequency range up to 80 MHz.

Equipment not having at least one conducting wire or cable (such as mains supply, signal line or earth connection) which can couple the equipment to the disturbing RF fields is excluded from the scope of this document.

NOTE 2 Test methods are specified in this part of IEC 61000 to assess the effect that conducted disturbing signals, induced by electromagnetic radiation, have on the equipment concerned. The simulation and measurement of these conducted disturbances are not adequately exact for the quantitative determination of effects. The test methods specified are structured for the primary objective of establishing adequate repeatability of results at various facilities for quantitative analysis of effects. The object of this document is to establish a common reference for evaluating the functional immunity of electrical and electronic equipment when subjected to conducted disturbances induced by RF

fields. The test method in this document describes a consistent method to assess the

NOTE 3 As described in IEC Guide 107, this document is a basic EMC publication for use by product committees of the IEC. As also stated in Guide 107, the IEC product committees are responsible for determining whether this immunity test standard should be applied or not, and if applied, they are responsible for determining the appropriate test levels and performance criteria. This fifth edition cancels and replaces the fourth edition published in 2013. This edition constitutes a technical revision. This edition includes the following significant technical changes with respect to the previous edition:

- a) selection of injection devices revised;*
- b) need of AE impedance check for clamp injection removed and Annex H deleted;*
- c) saturation check revised;*
- d) new Annex H on testing with multiple signals;*
- e) level-setting only with feedback loop.*

Please examine the document and share your comments regarding further improvement in the document.

Last date for sharing the comments is : 26 April 2024

The comments should be shared in the prescribed template through this portal only; and the comments so received shall be taken up by the Sectional Committee for necessary action. For any other query, please write an email at litd9@bis.gov.in to the undersigned at Bureau of Indian Standard, Manak Bhawan, 9, Bahadur Shah Zafar Marg, New Delhi.

In case no comments are received, we would presume your approval of the documents. However, in case we receive any comments on the document, the same shall be put up to the Sectional Committee for necessary action.

Thanking You,

Yours faithfully,
Reena Garg
Head (Electronics and Information Technology Department)
Email: litd9@bis.gov.in



व्यापक परिचालन में मसौदा(दे)

हमारा सन्दर्भ : LITD 09/T-24955

दिनांक : 26-02-2024

तकनीकी समिति : Electromagnetic Compatibility Sectional Committee, LITD 09

प्राप्तकर्ता : रूचि रखने वाले सभी निकाय

महोदय/या,

निम्नलिखित मसौदा तैयार किया गया है :

प्रलेख संख्या : LITD 09 (24955) WC

शीर्षक :

कृपया इस/इन मानक(को)/संशोधन(नो) के मसौदे(दो) का अवलोकन करें और अपनी सम्मतियाँ यह बताते हुए भेजें कि यदि ये मानक(को) के संशोधन(नो) के रूप में प्रकाशित हो तो इन पर अमल करने में आपके व्यवसाय अथवा कारोबार में क्या कठिनाइयां आ सकती हैं।

सम्मतियाँ भेजने की अंतिम तिथि : 26 April 2024

सम्मतियाँ, यदि कोई हों तो, कृपया यहाँ क्लिक करके ऑनलाइन पोर्टल के माध्यम से ऊपर दी गयी अंतिम तिथि तक दर्ज कराएं।

यह/ये प्रलेख भारतीय मानक ब्यूरो की वेबसाइट www.bis.gov.in पर भी उपलब्ध है/हैं।

धन्यवाद।

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