

NOTICE OF CHANGE
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INCH-POUND
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MIL-STD-1311B  
NOTICE 4  
16 December 1999

DEPARTMENT OF DEFENSE  
TEST METHOD STANDARD

TEST METHODS FOR ELECTRON TUBES

TO ALL HOLDERS OF MIL-STD-1311B

1. THE FOLLOWING PAGES OF MIL-STD-1311B HAVE BEEN REVISED AND SUPERSEDE THE PAGES PREVIOUSLY APPEARING IN THIS STANDARD:

<u>NEW PAGE</u>	<u>DATE</u>	<u>SUPERSEDED PAGE</u>	<u>DATE</u>
Cover page		Cover page	REPRINTED WITHOUT CHANGE
ii	16 December 1999	ii	28 March 1975
1	16 December 1999	1	28 March 1975
2	16 December 1999	2	28 March 1975
3	16 December 1999	3	28 March 1975
4	16 December 1999	4	28 March 1975

2. RETAIN THIS NOTICE PAGE AND INSERT BEFORE THE TABLE OF CONTENTS.

3. Holders of MIL-STD-1311B will verify that changes and additions indicated above have been entered. The notice page will be retained as a check sheet. This issuance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the Military Standard is completely revised or canceled.

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MIL-STD-1311B  
NOTICE 4

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NOTE: The cover page of this standard has been changed for administrative reasons. There are no other changes to this document.

INCH - POUND

MIL-STD-1311B  
28 MARCH 1975  
SUPERSEDING  
MIL-STD-1311A  
25 MARCH 1970

# DEPARTMENT OF DEFENSE

## TEST METHOD STANDARD

TEST METHODS FOR  
ELECTRON TUBES



AMSC N/A  
DISTRIBUTION STATEMENT A.

FSC 5960  
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MIL-STD-1311B

DEPARTMENT OF DEFENSE  
Washington D. C. 20301

Test methods for electron tubes

MIL-STD-1311B

1. This Department of Defense Standard is approved for use by all Department and Agencies of the Department of Defense.
2. Recommended corrections, additions, or deletions should be addressed to: Defense Supply Center Columbus, DSCC-VAT, P. O. Box 3990, Columbus, OH 43216-5000.

SUPERSEDES PAGE ii OF MIL-STD-1311B

MIL-STD-1311B

1. SCOPE

1.1 Purpose. This standard establishes uniform methods for testing the environmental, physical, and electrical characteristics of electron tubes as required by MIL-PRF-1 and the applicable tube specifications (TSS). Unless otherwise specified or authorized, tests shall be conducted as specified herein (see 4.6).

MIL-STD-1311B

2. REFERENCED DOCUMENTS

2.1 Specifications and standards. The issues of the following documents in effect on the date of invitation for bids form a part of this standard to the extent specified herein.

SPECIFICATIONS

DEPARTMENT OF DEFENSE

MIL-PRF-1 - Electron Tubes, General Specification for.  
MIL-E-75 - Electron Tubes, Packaging of.

STANDARDS

DEPARTMENT OF DEFENSE

MIL-STD-188-200 - System Design and Engineering Standards for Tactical Communication.  
MIL-STD-202 - Test Method Standard for Electronic and Electrical Components Parts.

DRAWINGS

DEPARTMENT OF DEFENSE

123-JAN - Bump Test Equipment.  
180-JAN - High Impact (Fly Weight) Shock Machine for Electronic Devices Bill of Materials.  
182-JAN - Acoustic Chamber for AF Noise and Microphonics Test.  
184-JAN - End-Grip Retainer for Impact Testing of Miniature and Sub-Miniature Electron Tubes.  
194-JAN - Noise and Microphonics Test Set.  
200-JAN - Deflection Cone for Miniature Tube Base Strain Test.  
216-JAN - Tube Clamps and Adapter Rings (for Impact Tests).  
244-JAN - 900-Megacycle and Resonant Frequency Test Equipment.  
245-JAN - Holder for Glass Strain Testing of Miniature and Subminiature Tubes.

(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific acquisition functions should be obtained from the acquiring activity or as directed by the contracting officer. JAN and DSCC drawings are available from the Defense Supply Center Columbus, DSCC-VAT, P. O. 3990, Columbus, OH 43216-5000.

REPORTS

Measuring Light Output of Cathode Ray Tube Screens. (Primary Standard replica lamps; ref. Method 5221) Material Laboratory (Naval) Final Report, 5032-B15.40.

Specification Development and Technical Evaluations of Types 3ACP19 and 12SP25 Cathode Ray Tubes. (Light output measurements for P19 and P25 phosphors; ref. Method 5221) Material Laboratory (Naval) Final Report, 5032-B-15.91.

(Copies required by suppliers in connection with specific acquisitions may be obtained from SPACE AND NAVAL WARFARE SYSTEMS COMMAND, 4301 Pacific Highway, San Diego, CA 92110-3127.)

MIL-STD-1311B

2.2 Other publications. The following documents form a part of this standard to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI-Z540.1-94 - Laboratories, Calibration, and Measuring and Test Equipment (DoD adopted).

(Application for copies should be addressed to American National Standards Institute (ANSI), Sales and Service, 11 West 42<sup>nd</sup> Street, New York, NY 10036.)

AMERICAN SOCIETY FOR TESTING AND MATERIALS

ASTM F300-64 - Standard Test Methods for Measuring Interface Impedance Characteristics of Electron Tube Cathodes.

(Application for copies should be addressed to the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.)

ELECTRONIC INDUSTRIES ALLIANCE (EIA)

EIA-191-D - Measurement of Direct Interelectrode Capacitances of Electron Tubes.

EIA-209-A - Electron Tubes Supplement 1 - 1965; Supplement 2 - 1968 R (1976).

(Applications for copies should be addressed to the Electronic Industries Alliance, 2500 Wilson Boulevard, Arlington, VA 22201-3834.)

(Technical society and technical association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

MIL-STD-1311B

3. ABBREVIATIONS, SYMBOLS, AND DEFINITIONS

3.1 For the purpose of this standard, the abbreviations, symbols, and definitions are specified in appendices A and B of MIL-PRF-1.