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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 3789.1-1991

789.9-1991; GB/T 3789.10-1991; GB/T 3789.11-1991; GB/T 3789.12-1991; GB/T 3789.13-1991; GB/T 3789.14-1991

**Measurements of electrical properties of transmitting tubes
(English Translation)**

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard replaces GB/T 3789.1-1991 ~ GB/T 3789.31-1991 "emission tube electrical performance test methods." this standard and GB/T 3789.1-1991 ~ GB/T 3789.31-1991 main changes are as follows.

--- This standard GB/T 3789.1-1991 ~ GB/T 3789.31-1991 in "launching tubes electrical performance test methods - General" and 30 standard test method for the integration of a standard;

--- Increased testing methods triode anode ion current (see 10.1);

- Delete duplicate and GB/T 4597 "tube vocabulary" in the term;
- Remove the GB/T 3789.11-1991 "test the electrical properties of transmitting tubes - Test method of the third gate-off voltage" and GB/T 3789.23-1991 "emission control testing methods of the electrical properties of the third gate control" is not applicable content;
- The GB/T 3789.4-1991, GB/T 3789.5-1991, GB/T 3789.6-1991, GB/T 3789.8-1991 and Electrical principles GB/T 3789.14-1991 in pentode tetrode circuit diagram to FIG.

The standard proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This standard by the National Standardization Technical Committee electric vacuum devices (SAC/TC167) centralized.

This standard was drafted. Chengdu Xuguang Electronics Co., Ltd.

1 Scope

This standard specifies the test method for the electrical properties of transmitting tubes, test equipment requirements and testing rules.

This standard applies to the anode dissipation power of 25W and above the launch tube test.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2421.1 electric and electronic products environmental testing and Overview Guide
GB/T 2987 Tube Parameter Symbol GB/T 4597 tubes vocabulary GB/T 6277-1986 Methods of measurement for television transmitters

3 Terms and Definitions

GB/T 4597 and GB/T 2987 defined by the following terms and definitions apply to this document.

Static characteristic curve Under the provisions of the operation, the relevant parameter has only one characteristic curve (parametric relationship between the two) DC values.

Anode characteristic curve platecharacteristiccurve when the remaining electrode voltage holding value, a first gate voltage takes a certain value, and the anode current versus anode voltage (a first gate electrode Anode current versus voltage and anode voltage for different values of the composition of the characteristic curve family).

Anode - the first gate characteristic plate-gridNo.1characteristiccurve Setting remaining voltage holding electrode, the anode voltage takes a certain value, and the first anode current versus gate voltage (anode voltage takes Anode current versus gate voltage different from the first value when the composition of the characteristic curve family).

First gate characteristic gridNo.1characteristiccurve when the rest of the electrode voltage is kept constant, the anode voltage takes a certain value, a first gate current and gate voltage of the first curve (anode A first gate current versus voltage of the first gate voltage for different values of the composition of the characteristic curve family).

First gate - anode characteristic curve gridNo.1-platecharacteristiccurve Holding the remaining electrode voltage value, the first gate voltage takes a certain value, and a first gate current versus anode voltage (first gate Current curve first gate voltage and anode voltage for different values of the composition of the characteristic curve family).