



ELECTRONIC TUBE REFERENCE

4A137B

Voltage - Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Directly heated tetrode with a heavy five-volt filament. Available source material confirms tetrode construction but does not establish a narrower functional application confidently.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	5 V / 1.6 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
PLATE RESISTANCE	3600 Ω
AMPLIFICATION FACTOR	5.3
MAXIMUM PLATE VOLTAGE	250 V
Standard Telephone and Cables 4A/137B directly heated coplanar-grid tetrode, oxide-coated 5 V 1.6 A filament and British five-pin base. Manufacturer typical rating at anode 145 V and coplanar grid conditions: amplification factor 5.3 and internal anode impedance about 3600 ohms; values vary with published power-stage operating points. Maximum DC anode voltage 250 V and maximum DC anode current 45 mA. Maximum potential difference between screen and control grids 150 V (NOT unrestricted maximum screen-to-cathode voltage); maximum positive control-grid swing +10 V. Typical screen/positive-grid potentials and RF power output depend on operating mode. Vertical mounting recommended; horizontal mounting requires filament plane vertical. Interelectrode capacitances grid-anode 38 pF, input 18 pF and output 9.4 pF.	

4A137B Tetrode. Technical characteristics, ratings, and operating information are provided in the approved Standard Valves datasheet.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Standard Telephone and Cables

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage	5 v	—
Nominal curren	1.6 A	—
Grid to anode	38 pF	—
Inpu	18 pF	—
Output	9.4 pF	—
Maximum direct anode curren	45 mA	—
screen and control grids	150 v	—
positive swing of input voltage	10 v	—
February 1946	4 A	—
February 1946	4 A	—
FILAMENT VOLTAGE =	5 VOLTS	—
SCREEN VOLTAGE =	70 VOLTS	—
February 1946	4 A	—
February 1946	4 A	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Va 145V Vg,	70 V	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

