



ELECTRONIC TUBE REFERENCE

454A

Voltage - Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

High figure-of-merit indirectly heated tetrode for the Western Electric TH radio-relay system, providing specialized amplification in professional communications links.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
PLATE RESISTANCE	33000 Ω
TRANSCONDUCTANCE	0.0315 S
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	6 W
MAXIMUM SCREEN DISSIPATION	1.75 W
MAXIMUM CATHODE CURRENT	50 mA
Typical values at plate 135 V, screen 135 V, control grid +9.5 V and 323-ohm cathode-bias resistor.	

The 454A is a high figure-of-merit indirectly heated tetrode with plate characteristics approaching those of a pentode, designed primarily for the TH Radio Relay System. It is the mechanically equivalent version with shortened plate pin 1; the 448A, 448B and 454A share the same electrical characteristics.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 400s

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

2026 WESTERN ELECTRIC 400S

Section 1 · Tetrode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-Plate Capacitance	0.03 pF	Without external shield
Input Capacitance	15.4 pF	Without external shield
Output Capacitance	2.03 pF	Without external shield

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical Plate Voltage	135 V	—
Typical Screen Grid Voltage	135 V	—
Typical Control Grid Voltage	9.5 V	—
Cathode Bias Resistor	323 ohm	—
Plate Current	24.9 mA	—
Screen Grid Current	8.8 mA	—
Heater-Cathode Voltage Maximum	—50 V	—

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker