

ELECTRONIC TUBE REFERENCE

444A

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRAVELINGWAVE

Medium-power helix traveling-wave amplifier around 6 GHz, designed primarily as a transmitting amplifier in long-distance radio-relay repeater stations.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 920 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1	TravelingWave
MAXIMUM CATHODE CURRENT	50 mA
Helix-type traveling-wave amplifier section; non-grid microwave electrodes retained as parameters.	

The 444A is a medium-power helix-type traveling-wave amplifier for applications in the 6000-megacycle frequency region, intended primarily as a transmitting amplifier in long-distance radio-relay repeater stations.

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 · TravelingWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Accelerator Anode Voltage	2700 V	—
Accelerator Anode Current	—0.6 mA	—
Helix Voltage	2400 V	—
Helix Current	—0.4 mA	—
Collector Voltage	1200 V	—
Power Output	5— W	—
Gain at 5 W Output	32.5 dB	—
Noise Figure	—30 dB	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Accelerator Anode Voltage Maximum	—3000 V	—
Accelerator Anode Current Maximum	—2 mA	—
Accelerator Anode Power Maximum	—2.5 W	—
Helix Voltage Maximum	—2700 V	—
Helix Current Maximum	—2 mA	—
Helix Power Maximum	—2.5 W	—
Collector Voltage Maximum	—2000 V	—
Collector Power Maximum	—80 W	—
Heater-Cathode Voltage Maximum	-45–45 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