



ELECTRONIC TUBE REFERENCE

331A

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Western Electric thoriaated-tungsten air-cooled transmitting triode for RF power service. Its 125 W plate dissipation, 1.5 kV plate rating, relatively high amplification factor, and low capacitances suit medium-power transmitters through roughly 30 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	10 V / 8.25 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	8900 Ω
TRANSCONDUCTANCE	0.0045 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	1500 V
MAXIMUM PLATE DISSIPATION	125 W
MAXIMUM CATHODE CURRENT	200 mA
Values extracted from Western Electric summary tables; additional table data retained as parameters.	

Air-cooled transmitting triode for RF power service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 Western Electric Tubes

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

1956 WESTERN ELECTRIC TUBES

Section 1 · Triode

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube service	Transmitting tube	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical RF power output	1500 W	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Western Electric 300s

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

2026 WESTERN ELECTRIC 300S

Section 1 · Triode

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to grid	6.7 pF	—
Grid to filament	9 pF	—
Plate to filament	2.6 pF	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum direct grid current	70 mA	—
Maximum RF grid current	5 A	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency at full ratings	30 MHz	—
Approximate maximum output two tubes	370 W	ClassB;PushPull;PlateVoltage=1500V