



ELECTRONIC TUBE REFERENCE

316A

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Compact directly heated transmitting triode for UHF oscillator and RF power-amplifier service. Low interelectrode capacitance and approximately 20 W plate dissipation permit full-rating operation to about 400 MHz with several watts of RF output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	2 V / 3.65 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0024 S
AMPLIFICATION FACTOR	8
MAXIMUM PLATE VOLTAGE	500 V
MAXIMUM PLATE DISSIPATION	20 W
MAXIMUM CATHODE CURRENT	90 mA
<i>Promoted values are taken from clearly identified printed ratings/characteristics.</i>	

Air-cooled transmitting triode used as an oscillator and RF power tube.



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 oscillator power output	6.5 W	OscillatorService



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Frequency	400 MHz	FullRatings
Power Output	7.5 W	ClassC;Oscillator

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid To Plate Capacitance	1.6 pF	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	2 V	—
HeaterOrFilamentCurrentNominal	3.65 A	—
MaxPlateVoltage	500 V	—
MaxPlateDissipation	20 W	—
Typical Plate Voltage	450 V	—
Typical Plate Current	67 mA	—
Typical Power Output	5 W	500MHz
OscillationFrequencyLimit	750 MHz	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2400 μ S	—
Amplification Factor	8	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate To Grid Capacitance	1.6 pF	—
Grid To Filament Capacitance	1.1 pF	—
Plate To Filament Capacitance	0.65 pF	—

TUBE TINKER

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

