

Lock-In UHF triode for signal-source, local-oscillator, and power-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8BN	BASE PINS	8
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	12000 Ω
TRANSCONDUCTANCE	0.003 S
AMPLIFICATION FACTOR	36
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	4 W
MAXIMUM CATHODE CURRENT	16 mA
MAXIMUM HEATER-CATHODE VOLTAGE	90 V
Published promoted fields populated by semantic heading; identical repeated physical sections compressed.	

A Lock-In cathode-type triode designed for ultra-high-frequency use as a signal source, local oscillator, or power amplifier.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	7 V	Nominal
HeaterCurrentNominal	160 mA	Nominal
Plate Voltage	180 V	ClassA
Oscillator Frequency	750 MHz	UHF;Oscillator
Power Output	0.2 W	UHF;PowerAmplifier;300MHz



SOURCE OPERATING CONDITIONS

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195X General Electric Essential Characteristics

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195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	3.6 pF	Section1
Output capacitance	2.8 pF	Section1
Grid-to-plate capacitance	1.5 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate voltage	180 V	ClassA
Typical grid voltage	-3 V	ClassA
Typical plate current	5.5 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	12000 Ohm	Section1
Transconductance	3000 uS	Section1
Amplification factor	36	Section1


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1961 Tung Sol

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1961 TUNG SOL
Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid To Plate Capacitance	1.5 pF	—
Input Capacitance	3.6 pF	—
Output Capacitance	2.8 pF	—