

ELECTRONIC TUBE REFERENCE

3ES5

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Triode for grounded-cathode RF amplification in VHF television tuners.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	2 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	8000 Ω
TRANSCONDUCTANCE	0.009 S
AMPLIFICATION FACTOR	75
MAXIMUM PLATE VOLTAGE	290 V
MAXIMUM PLATE DISSIPATION	2.4 W
MAXIMUM CATHODE CURRENT	22 mA
Promoted from clearly identified source values; additional cutoff, RF/IF, television, capacitance, and heater-condition data are retained in TUBE_SECTION_PARAMETER.	

Triode tuner for grounded-cathode RF amplification in television tuners.



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
PLATE VOLTAGE	200 VOLTS	Published datasheet value
PLATE CURRENT	10 MA	Published datasheet value
GRID VOLTAGE (APPROX.) FOR 400 A PLATE CURRENT	-6 VOLTS	Published datasheet value



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance with shield	3.2 pF	Section1
Output capacitance with shield	4 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	GroundedCathodeRFAmplifier
Grid voltage	-1 V	GroundedCathodeRFAmplifier
Plate current	10 mA	GroundedCathodeRFAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	8000 Ω	Section1
Transconductance	9000 μS	Section1
Amplification factor	75	Section1
Grid voltage at 100 μA plate current	-6 V	Section1
Heater warm-up time	11 s	Section1