

ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

3FQ5A

Voltage - Triode (single high frequency) electronic tube

Improved semi-remote-cutoff triode for VHF RF-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	2.8 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	6300 Ω
TRANSCONDUCTANCE	0.012 S
AMPLIFICATION FACTOR	74
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	22 mA
<i>Promoted from clearly identified source values; additional cutoff, RF/IF, television, capacitance, and heater-condition data are retained in TUBE_SECTION_PARAMETER.</i>	

Improved semi-remote-cutoff triode for VHF and RF amplifier service.



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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID TO PLATE	0.52 PF	Published datasheet value
INPUT: G TO (HtKk+i.s.tE.S.)	5 PF	Published datasheet value
OUTPUT: P TO (HtK+1.S5.+E.S.)	3.5 PF	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HEATER TO CATHODE	2.8 PF	Published datasheet value
MAX IMUM PLATE VOLTAGE	200 VOLTS	Published datasheet value
MAXIMUM DC CATHODE CURRENT	22 MA	Published datasheet value
MAX IMUM NEGATIVE GRID VOLTAGE	50 VOLTS	Published datasheet value
GRID VOLTAGE	-1.2 VOLTS	Published datasheet value
PLATE CURRENT	8.9 MA	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
Heater-to-cathode capacitance	2.5 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	135 V	VHFRFamplifier
Plate current	8.9 mA	VHFRFamplifier
Application	Semi-remote-cutoff VHF/RF amplifier	Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	12000 μ S	Section1
Amplification factor	74	Section1
Plate resistance	6300 Ω	Section1
Heater warm-up time	11 s	Section1

TUBE TINKER

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

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