

ELECTRONIC TUBE REFERENCE

5703

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Subminiature medium-mu triode for UHF oscillator, Class C amplifier, and frequency-multiplier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5703	BASE PINS	5
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.005 S
AMPLIFICATION FACTOR	25.5
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	3.3 W
MAXIMUM CATHODE CURRENT	22 mA
MAXIMUM HEATER-CATHODE VOLTAGE	100 V
Subminiature medium-mu triode.	

The 5703 is a heater-cathode subminiature medium-mu triode intended for UHF oscillator, Class C amplifier, and frequency-multiplier applications, with flexible wire leads for direct circuit connection.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	2.6 pF	—
Output capacitance	0.7 pF	—
Grid-to-plate capacitance	1.2 pF	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	120 V	ClassA
Cathode-bias resistor	220 ohm	ClassA
Plate current	9 mA	ClassA

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5000 μ S	—
Amplification factor	25	—

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
Heater voltage	6.3 V	Nominal
Heater current	200 mA	Nominal
Plate voltage	275 V	Published operating table; OperatingPoint1
Plate voltage	120 V	Published operating table; OperatingPoint1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	22 mA	Published operating table; OperatingPoint1
Plate current	9.6 mA	Published operating table; OperatingPoint1
Transconductance	5000 μ S	Published operating table; OperatingPoint1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.2 pF	Without shield
Input capacitance	2.6 pF	Without shield
Output capacitance	0.7 pF	Without shield



TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.2 pF	WholeTube
Input capacitance	2.6 pF	WholeTube
Output capacitance	0.7 pF	WholeTube

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	275 V	WholeTube
Maximum plate dissipation	3.3 W	WholeTube
Maximum plate current	22 mA	WholeTube
Maximum grid current	5.5 mA	WholeTube
Maximum heater-cathode voltage	100 V	WholeTube
Plate voltage	120 V	TypicalOperation
Cathode bias resistance	220 ohm	TypicalOperation
Plate current	9.6 mA	TypicalOperation
Transconductance	5000 μ S	TypicalOperation
Amplification factor	25.5	TypicalOperation
Oscillator power output	180 mW	UHF, 400 MHz minimum test