

ELECTRONIC TUBE REFERENCE

5814WA

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Ruggedized medium-mu twin triode for voltage amplification, oscillator/mixer, multivibrator, and phase-inverter service, intended for severe-shock military and industrial airborne equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9A	BASE PINS	9
NOMINAL HEATER	12.6 V / 175 mA	PARALLEL HEATER	6.3 V / 350 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9A - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – 2P	B	P – Plate (Anode)	CONNECTED
PIN2 – 2G1	B	G1 – Control Grid	CONNECTED
PIN3 – 2K	B	K – Cathode	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – 1P	A	P – Plate (Anode)	CONNECTED
PIN7 – 1G1	A	G1 – Control Grid	CONNECTED
PIN8 – 1K	A	K – Cathode	CONNECTED
PIN9 – HCT	–	HCT – Heater Center Tap	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	7700 Ω
TRANSCONDUCTANCE	0.0022 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	22 mA
<i>Published promoted fields populated semantically; identical repeated sections compressed.</i>	

SECTION2 Triode	
PLATE RESISTANCE	7700 Ω
TRANSCONDUCTANCE	0.0022 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	22 mA
<i>Second physical triode restored under current one-row-per-physical-section policy.</i>	

Ruggedized medium-mu twin triode with electrically independent sections for voltage amplification, oscillator/mixer, multivibrator and phase-inverter service; intended for severe-shock military and industrial airborne equipment.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	12.6 V	Nominal
HeaterCurrentNominal	175 mA	Nominal
Maximum Plate Voltage	330 V	—
Maximum Plate Dissipation	3 W	—
Maximum Cathode Current	20 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2200 μ S	Typical
Amplification Factor	17	Typical
Plate Resistance	7700 ohm	Typical



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	7700 ohm	EachSection
Transconductance	2200 μ S	EachSection

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	17	EachSection



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	350 mA	—
Plate voltage	100 V	ClassA
Grid voltage	0 V	ClassA;100VPlate
Plate current	11.8 mA	100VPlate
Plate voltage	250 V	ClassA
Grid voltage	-8.5 V	ClassA;250VPlate
Plate current	10.5 mA	250VPlate
Maximum plate voltage	330 V	—
Maximum plate dissipation	3 W	—
Maximum cathode current	22 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	19.5	100VPlate
Plate resistance	6250 ohm	100VPlate
Transconductance	3100 uS	100VPlate
Amplification factor	17	250VPlate
Plate resistance	7700 ohm	250VPlate
Transconductance	2200 uS	250VPlate

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.5 pF	Section1
Grid-to-plate capacitance	1.5 pF	Section2
Input capacitance	1.6 pF	Section1
Input capacitance	1.6 pF	Section2
Output capacitance	0.5 pF	Section1
Output capacitance	0.35 pF	Section2

TUBE TINKER

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