

ELECTRONIC TUBE REFERENCE

5998A

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Low-mu twin power triode designed for series-regulator service in DC power supplies. Electrically related to the 5998 but using a different envelope and base, it emphasizes high current and very low plate resistance.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8BD	BASE PINS	8
NOMINAL HEATER	6.3 V / 2.4 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

8BD - TERMINAL PINOUT

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

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	350 Ω
TRANSCONDUCTANCE	0.0155 S
AMPLIFICATION FACTOR	5.4
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	15 W
MAXIMUM CATHODE CURRENT	140 mA
MAXIMUM HEATER-CATHODE VOLTAGE	100 V
<i>Representative section for two electrically identical sections.</i>	

SECTION2 Triode	
PLATE RESISTANCE	350 Ω
TRANSCONDUCTANCE	0.0155 S
AMPLIFICATION FACTOR	5.4
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	15 W
MAXIMUM CATHODE CURRENT	140 mA
<i>Second physical triode section; identical dual-triode structure per reviewed datasheets.</i>	

The 5998A is a low- μ twin triode for series-regulator service in DC power supplies; electrically it is the same as the 5998 but uses a different envelope and base.



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
Service	Series regulator	DCPowerSupply



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 4 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance each section	14.5 pF	WholeTube
Input capacitance each section	6.5 pF	WholeTube
Output capacitance each section	2 pF	WholeTube
Heater-to-cathode capacitance each section	11 pF	WholeTube
Plate-to-plate capacitance between sections	2 pF	WholeTube

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	275 V	WholeTube

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	15 W	WholeTube
Maximum DC plate current	140 mA	WholeTube
Maximum heater-cathode voltage	100 V	WholeTube
Plate supply voltage	110 V	AverageCharacteristics
Cathode-bias resistor	105 ohm	AverageCharacteristics
Amplification factor	5.4	AverageCharacteristics
Plate resistance	350 ohm	AverageCharacteristics
Transconductance	15500 uS	AverageCharacteristics
Plate current	100 mA	AverageCharacteristics