



ELECTRONIC TUBE REFERENCE

6877

Triode - HV Shunt Regulator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

High-voltage triode designed for electronic voltage-regulator service, controlling or shunting current to stabilize demanding power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 800 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	2000 Ω
TRANSCONDUCTANCE	0.0065 S
AMPLIFICATION FACTOR	3.75
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	12 W
MAXIMUM CATHODE CURRENT	100 mA

Published ratings and characteristics promoted from the approved datasheet.

Low-mu miniature power triode for series-pass or regulator service in military and industrial airborne power supplies. Electrical ratings, characteristics, operating data, and special environmental information were extracted from the supplied source.



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	800 mA	Nominal
Plate voltage	200 V	Published operating table; OperatingPoint1
Plate voltage	150 V	Published operating table; OperatingPoint1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	75 mA	Published operating table; OperatingPoint1
Transconductance	6500 μ S	Published operating table; OperatingPoint1
Plate resistance	2000 ohm	Published operating table; OperatingPoint1



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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
CATHODE HEATING TIME	30 s	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
LIMITS OF APPLIED VOLTAGE – published value 1	6.3 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
LIMITS OF APPLIED VOLTAGE – published value 2	3 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE VOLTAGE	200 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
POSITIVE DC GRID VOLTAGE	5 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
NEGATIVE DC GRID VOLTAGE	150 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE DISSIPATION	12 W	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
DC CATHODE CURRENT	100 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
DC GRID CURRENT	5 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
GRID CIRCUIT RESISTANCE	1 Mohm	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE VOLTAGE	150 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
GRID VOLTAGE	-12 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE CURRENT	75 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TRANSCONDUCTANCE	6500 μS	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
AMPLIFICATION FACTOR	3.75	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PLATE RESISTANCE	2000 ohm	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
Plate resistance	2000 ohm	Promoted section value from the supplied datasheet.
Transconductance	0.0065 A/V	Promoted section value from the supplied datasheet.
Amplification factor	3.75	Promoted section value from the supplied datasheet.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
BULB TEMPERATURE –ABSOLUTE MAX.	300	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
ALTITUDE –ABSOLUTE MAX.	80000	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
Maximum plate voltage	200 V	Promoted section value from the supplied datasheet.
Maximum plate dissipation	12 W	Promoted section value from the supplied datasheet.

TUBE TINKER

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

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