



ELECTRONIC TUBE REFERENCE

6520

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE

Low-mu high-perveance twin power triode designed for series-pass and DC regulator service. Closely balanced sections, very low plate resistance, and high current capability make it especially suitable for stabilized power supplies and control circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 2.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	280 Ω
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	2
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	14 W
MAXIMUM CATHODE CURRENT	125 mA
<i>Published ratings and characteristics promoted where applicable; additional table values retained in TUBE_SECTION_PARAMETER.</i>	

Low-mu high-perveance twin power triode intended for series-pass and DC power-supply regulator service, with close section balance and high grid-to-plate insulation. 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	2.5 A	Nominal
Plate voltage	300 V	Published operating table; OperatingPoint1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	112 mA	Published operating table; OperatingPoint1
Plate current	58 mA	Published operating table; OperatingPoint1
Plate current	125 mA	Published operating table; OperatingPoint1
Transconductance	7000 μ S	Published operating table; OperatingPoint1
Plate resistance	280 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
HEATER	6.311 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
HEATER CURRENT	2.5 A	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE- SUPPLY VOLTAGE	135 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
AMPLIFICATION FACTOR	2	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE RESISTANCE	2 ohm	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TRANSCONDUCTANCE	7000 uS	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE CURRENT	112 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE-SUPPLY	1 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
FIXED GRID BIAS	55 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE CURRENT	58 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
HEATER – published value 1	6 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
HEATER – published value 2	0 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
HEATER CURRENTC – published value 1	2.26 A	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HEATER CURRENTC – published value 2	2.74 A	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
GRID –PLATE CAPACITANCE (EACH UNIT) – published value 1	6.9 pF	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
GRID –PLATE CAPACITANCE (EACH UNIT) – published value 2	9.9 pF	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
OUTPUT CAPACITANCE (EACH – published value 1	1.7 pF	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
OUTPUT CAPACITANCE (EACH – published value 2	2.7 pF	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
AMPLIFICATION FACTOR (EACH UNIT) – published value 1	1.9	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
AMPLIFICATION FACTOR (EACH UNIT) – published value 2	2.5	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE CURRENT (EACH UNI – published value 1	100 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE CURRENT (EACH UNI – published value 2	125 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
Plate resistance	280 ohm	Promoted section value from the supplied datasheet.
Transconductance	0.007 A/V	Promoted section value from the supplied datasheet.
Amplification factor	2	Promoted section value from the supplied datasheet.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM PLATE	300 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
MAXIMUM PLATE CURRENT	125 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM PLATE DISSIPATION	14 W	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
Maximum plate voltage	300 V	Promoted section value from the supplied datasheet.
Maximum plate dissipation	14 W	Promoted section value from the supplied datasheet.

TUBE TINKER

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