



ELECTRONIC TUBE REFERENCE

6528

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE

Rugged long-life twin power triode developed as a high-current series-pass tube for regulated power supplies. Each section combines very high transconductance, low plate resistance, and approximately 30 W dissipation for demanding regulator and power-control service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	245 Ω
TRANSCONDUCTANCE	0.035 S
AMPLIFICATION FACTOR	8
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	30 W
MAXIMUM CATHODE CURRENT	300 mA
<i>Published ratings and characteristics promoted where clearly stated; identical repeated sections compressed where applicable.</i>	

Long-life rugged twin power triode developed as a high-current series-pass tube for regulated power supplies. Electrical ratings, characteristics, operating data, and special environmental information were extracted from the supplied source.



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

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	Published nominal or representative value
Heater or filament current	5 A	Published nominal or representative value
Transconductance	37000 μ S	Published operating characteristic

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	30 W	Published maximum rating



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	5 A	Nominal
Plate voltage	0 V	Published operating table; OperatingPoint1
Plate voltage	400 V	Published operating table; OperatingPoint2
Plate current per section maximum	300 mA	PerSection

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum altitude at full ratings	10000 ft	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	29 uS	Published operating table; OperatingPoint1
Transconductance	0 uS	Published operating table; OperatingPoint2
Transconductance	45 uS	Published operating table; OperatingPoint3
Transconductance	0 uS	Published operating table; OperatingPoint4
Plate resistance	245 ohm	Published operating table; OperatingPoint1


SOURCE DATA APPENDIX

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
TRANSCONDUCTANCE (PER SECTION)	3 uS	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE RESISTANCE	245 ohm	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
HEATER VOLTAGE — published value 1	57 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
HEATER VOLTAGE — published value 2	9 V	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
SHOCK:	480	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PLATE CURRENT – published value 1	5 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE CURRENT – published value 2	0 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TRANSCONDUCTANCE PER SECTION – published value 1	23	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TRANSCONDUCTANCE PER SECTION – published value 2	500	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
HK LEAKAGE (MAX.)	0 uA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE CURRENT PER SECTION – published value 1	0 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE CURRENT PER SECTION – published value 2	230 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
AMPLIFICATION FACTOR – published value 1	0	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
AMPLIFICATION FACTOR – published value 2	0	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TRANSCONDUCTANCE – published value 1	29 uS	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TRANSCONDUCTANCE – published value 2	0 uS	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TRANSCONDUCTANCE – published value 3	45 uS	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
TRANSCONDUCTANCE – published value 4	0 uS	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
HEATER CURRENT PER TUBE – published value 1	4.75 A	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HEATER CURRENT PER TUBE – published value 2	5.25 A	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
PLATE CURRENT PER SECTION – published value 2	3 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
Plate resistance	245 ohm	Promoted section value from the supplied datasheet.
Transconductance	0.035 A/V	Promoted section value from the supplied datasheet.
Amplification factor	8	Promoted section value from the supplied datasheet.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAXIMUM SHOCK RATING (NAVY HI	7 mA	Published datasheet table value; multiple values on a source row represent separate limits or operating conditions.
Maximum plate voltage	400 V	Promoted section value from the supplied datasheet.
Maximum plate dissipation	60 W	Promoted section value from the supplied datasheet.
Maximum cathode current	300 mA	Promoted section value from the supplied datasheet.

TUBE TINKER

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