

ELECTRONIC TUBE REFERENCE

5687WA

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Ruggedized high-perveance medium-mu twin triode intended for pulse, industrial, military airborne, and standby-trigger applications, with unusually high shock and acceleration ratings.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	12.6 V / 450 mA	PARALLEL HEATER	6.3 V / 900 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	2000 Ω
TRANSCONDUCTANCE	0.0085 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	4.2 W
MAXIMUM CATHODE CURRENT	50 mA
Representative row for two ruggedized high-perveance triodes.	

SECTION2 Triode	
PLATE RESISTANCE	2000 Ω
TRANSCONDUCTANCE	0.0085 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	4.2 W
MAXIMUM CATHODE CURRENT	50 mA
<i>Second physical triode restored under current one-row-per-physical-section policy.</i>	

Ruggedized high-perveance medium-mu twin triode for pulse, industrial, military airborne, and standby-trigger applications.



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	12.6 V	Nominal
Heater current	450 mA	Nominal



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
Plate voltage	180 V	ClassA;EachSection
Grid voltage	-7 V	ClassA;EachSection
Plate current	23 mA	ClassA;EachSection
Maximum inverse plate voltage	1000 V	Pulse
Total plate dissipation both units	7.5 W	BothSections
Maximum shock	450 G	Ruggedized
Maximum uniform acceleration	1000 G	Ruggedized
Maximum vibrational acceleration	2.5 G	Ruggedized

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	2000 ohm	ClassA;EachSection
Transconductance	8500 uS	ClassA;EachSection
Amplification factor	17	ClassA;EachSection

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	4 pF	EachSection
Heater-to-cathode capacitance	7 pF	EachSection
Plate-to-plate capacitance	0.75 pF	BetweenSections

TUBE TINKER

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