



ELECTRONIC TUBE REFERENCE

6111WA

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Ruggedized subminiature twin triode for UHF amplifier service, designed to withstand high shock, vibration, and acceleration while providing compact high-frequency amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	4000 Ω
TRANSCONDUCTANCE	0.00465 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	0.95 W
MAXIMUM CATHODE CURRENT	22 mA
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
Representative row for electrically identical repeated sections.	

SECTION2 Triode	
PLATE RESISTANCE	4000 Ω
TRANSCONDUCTANCE	0.00465 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	0.95 W
MAXIMUM CATHODE CURRENT	22 mA
<i>Second physical triode restored under current one-row-per-physical-section policy.</i>	

The 6111WA is a heater-cathode medium-mu subminiature twin triode capable of UHF-region operation and designed for severe high-temperature, mechanical-shock and vibration environments.



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 value
Heater or filament current	300 mA	Published nominal or representative value
Transconductance	5000 μ S	Published characteristic

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	0.95 W	Published maximum rating



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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1961 TUNG SOL

Section 1 · Triode

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ImpactAcceleration	450 g	—
UniformAcceleration	1000 g	—
VibrationalAcceleration	2.5 g	—
Service	UHF amplifier	—

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 nominal	1.5 pF	WholeTube
Input capacitance nominal	1.9 pF	WholeTube
Output capacitance section 1 nominal	0.28 pF	WholeTube
Output capacitance section 2 nominal	0.32 pF	WholeTube
Grid-to-grid capacitance maximum	0.011 pF	WholeTube
Plate-to-plate capacitance maximum	0.5 pF	WholeTube

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	250 V	WholeTube
Maximum peak plate voltage	360 V	WholeTube
Maximum negative grid 1 voltage	55 V	WholeTube
Maximum plate dissipation per plate	0.95 W	WholeTube
Maximum plate current per plate	22 mA	WholeTube
Maximum grid current per grid	5.5 mA	WholeTube
Maximum heater-cathode voltage	200 V	WholeTube
Plate voltage	100 V	NormalOperation

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode resistance	220 ohm	NormalOperation
Plate current per plate	8.5 mA	NormalOperation
Transconductance per plate	5000 uS	NormalOperation
Amplification factor	20	NormalOperation
Maximum impact acceleration	450 G	Mechanical
Maximum uniform acceleration	1000 G	Mechanical
Maximum bulb temperature	220 C	Mechanical