

ELECTRONIC TUBE REFERENCE

6J6WA

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Military/industrial common-cathode high-frequency twin triode of the 6J6 family, intended for amplifier, oscillator, and related RF service with ruggedized construction.

GENERAL CHARACTERISTICS

BASE DESIGNATION	78F	BASE PINS	7
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	6300 Ω
TRANSCONDUCTANCE	0.006 S
AMPLIFICATION FACTOR	38
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	30 mA
Representative specification for repeated identical sections.	

SECTION2 Triode	
PLATE RESISTANCE	6300 Ω
TRANSCONDUCTANCE	0.006 S
AMPLIFICATION FACTOR	38
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	30 mA
<i>Second physical triode section; electrically identical twin section.</i>	

Military/industrial high-frequency double triode with a common cathode. Data was extracted from the supplied Tung-Sol source, including published ratings, characteristics, and operating information.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 RCA Industrial and Communications Types

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Triode

CROSSREFERENCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Prototype / equivalent family	6J6	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Military specification	MIL-E-1/243B	—



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
Plate Voltage	300 V	Published operating/characteristic table

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	12.5 mA	Published operating/characteristic table
Transconductance	6000 μ S	Published operating/characteristic table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	38	Published operating/characteristic table
Plate Resistance	6300 ohm	Published operating/characteristic table



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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	7100 ohm	PromotedValue
Transconductance	0.0053 A/V	PromotedValue
Amplification factor	38	PromotedValue
AVERAGE CHARACTERISTICS – published value 1	6.3 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
AVERAGE CHARACTERISTICS – published value 2	450 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
VOLTAGE OPERATION – published value 1	6.3 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
VOLTAGE OPERATION – published value 2	0.6 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE VOLTAGE	300 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE DISSIPATION	1.1 WATTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE CURRENT	12.5 MA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ENVELOPE TEMPERATURE	165	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
GRID CURRENT RESISTANCE (CATHODE BIAS)	0.25	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE VOLTAGE	100 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
CATHODE BIAS RESISTOR (BOTH SECTIONS)	50 OHMS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE CURRENT	9 MA	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
AMPLIFICATION FACTOR	38	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.
PLATE RESISTANCE	6.3 OHMS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	PromotedValue
Maximum plate dissipation	1.5 W	PromotedValue
Maximum cathode current	30 mA	PromotedValue
MAXIMUM HEATER-C., THODE VOLTAGE	180 VOLTS	OCR table transcription; verify against supplied datasheet layout where multiple columns represent operating conditions.

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker