

ELECTRONIC TUBE REFERENCE

6K4

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Subminiature flexible-lead general-purpose triode for compact high-frequency equipment, specified for operation around 500 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6K4	BASE PINS	—
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	4650 Ω
TRANSCONDUCTANCE	0.00345 S
AMPLIFICATION FACTOR	16
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	20 mA
Published electrical data translated from the supplied Chinese-language source; repeated identical sections are compressed per project rules.	

Subminiature flexible-lead general-purpose triode for compact high-frequency equipment, specified for operation around 500 MHz.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	4650 ohm	—
Transconductance	3450 μ S	—
Amplification Factor	16	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	250 V	—
Maximum Plate Dissipation	3 W	—
Maximum Cathode Current	20 mA	—
Plate Voltage	200 V	—
Plate Current	11.5 mA	—
RF Output Power	0.75 W	Approximately 500 MHz



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	250 V	Published handbook rating
Plate voltage	200 V	ClassA
Plate current	11.5 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	4650 ohm	Published handbook characteristic
Transconductance	3450 μ S	Published handbook characteristic
Amplification factor	16	Published handbook characteristic
Heater voltage	6.3 V	Published heater rating
Heater current	150 mA	Published heater rating

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	2.4 pF	Published capacitance column
Output capacitance	0.8 pF	Published capacitance column
Grid-to-plate capacitance	2.4 pF	Published capacitance column



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

198X Shuguang

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

198X SHUGUANG

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	300 mA	Nominal
Plate voltage	250 V	Published principal electrical parameter

TUBE TINKER

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and their source documents.

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