

ELECTRONIC TUBE REFERENCE

6DZ4

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Miniature medium-mu triode designed as a UHF local oscillator in color and black-and-white television receivers covering approximately 470–890 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7DK	BASE PINS	7
NOMINAL HEATER	6.3 V / 225 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7DK - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – P	A	P – Plate (Anode)	CONNECTED
PIN2 – G1	A	G1 – Control Grid	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – K	A	K – Cathode	CONNECTED
PIN6 – G1	A	G1 – Control Grid	CONNECTED
PIN7 – P	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	2000 Ω
TRANSCONDUCTANCE	0.0067 S
AMPLIFICATION FACTOR	14
MAXIMUM PLATE VOLTAGE	135 V
MAXIMUM PLATE DISSIPATION	2.3 W
MAXIMUM CATHODE CURRENT	20 mA
<i>UHF oscillator triode.</i>	

Miniature medium-mu triode used as a local oscillator in UHF color and black-and-white television receivers covering approximately 470 to 890 MHz.



SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate supply voltage	80 V	ClassA1
Plate dropping resistor	2700 ohm	ClassA1
Plate current	15 mA	ClassA1
Negative grid voltage maximum	50 V	UHF-Oscillator
Oscillator test frequency	1000 MHz	JEDECStandardOscillatorNo400



SOURCE OPERATING CONDITIONS

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1971 RCA HB3 Binder 4 of 7

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1971 RCA HB3 BINDER 4 OF 7

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	225 mA	—
Plate supply voltage	80 V	ClassA
Plate resistor	2700 ohm	ClassA
Plate current	15 mA	ClassA
Maximum plate voltage	135 V	UHFOScillator

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum grid current	2 mA	UHF Oscillator
Maximum cathode current	20 mA	UHF Oscillator
Plate dissipation	2.3 W	—
Operating frequency	1000 MHz	Oscillator Test

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	14	Class A
Plate resistance	2000 ohm	Class A
Transconductance	6700 uS	Class A

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.8 pF	—



SOURCE OPERATING CONDITIONS

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1975 RCA RC30

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

1975 RCA RC30

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate	1.8 pF	Capacitance
Grid to Cathode and Heater	2.2 pF	Capacitance
Plate to Cathode and Heater	1.3 pF	Capacitance

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Supply Voltage	80 V	Class A
Plate Resistor	2700 ohm	Class A
Plate Current	15 mA	Class A

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Oscillator Frequency	1000 MHz	Oscillator
Oscillator Plate Supply Voltage	135 V	Oscillator
Oscillator Plate Current	15.5 mA	Oscillator

TUBE TINKER

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