

ELECTRONIC TUBE REFERENCE

6U5

Tuning Indicator electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TUNING INDICATOR

Circular electron-ray tuning indicator with integral remote-cutoff triode amplifier, producing a variable fluorescent shadow for accurate receiver tuning.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6R	BASE PINS	6
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

6R - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – H	–	H – Heater	CONNECTED
PIN2 – D	A	OTHER – Other Identified Element	CONNECTED
PIN3 – G1	A	G1 – Control Grid	CONNECTED
PIN4 – T	A	T – Target	CONNECTED
PIN5 – K	A	K – Cathode	CONNECTED
PIN7 – H	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	285 V
MAXIMUM PLATE DISSIPATION	1 W
Internal remote-cutoff triode amplifier section of the tuning indicator.	

SECTION2 Tuning Indicator	
MAXIMUM PLATE VOLTAGE	285 V
<i>Electron-ray tuning-indicator section; canonical SectionType fallback Other.</i>	

Circular fluorescent tuning indicator with an internally connected remote-cutoff triode amplifier; source is double-marked 6U5/6G5.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Raytheon Radio Receiving Tubes

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

1937 RAYTHEON RADIO RECEIVING TUBES

Section 2 · Tuning Indicator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate supply voltage maximum	250 V	TuningIndicator
Target voltage maximum	250 V	TuningIndicator
Target voltage minimum	90 V	TuningIndicator
Plate supply voltage	100 V	TuningIndicator
Target voltage	100 V	TuningIndicator
Plate resistor	0.5 MΩ	TuningIndicator
Target current	4.5 mA	TuningIndicator
Plate current	0.19 mA	ZeroBias
Grid bias	-8 V	Shadow0Degrees
Plate supply voltage	250 V	TuningIndicator
Target voltage	250 V	TuningIndicator
Plate resistor	1 MΩ	TuningIndicator
Target current	4.5 mA	TuningIndicator
Plate current	0.24 mA	ZeroBias
Grid bias	-22 V	Shadow0Degrees
Grid bias	0 V	Shadow90Degrees

1938 Raytheon

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

1938 RAYTHEON

Section 2 · Tuning Indicator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
, l Heater Current	300 mA	, l Heater Current 0,3 amp
f Maxirmm Plate Supply Voltage	2860 V	f Maxirmm Plate Supply Voltage 2860 volts
J DU t»m Maxim Target Voltage	250 V	J DU t»m Maxim Target Voltage 250 volts
Plate Supply Voltage 100 200	260 V	Plate Supply Voltage 100 200 260 volts
Grid Blas (approximate) 0 0	0 V	Grid Blas (approximate) 0 0 0 volts
Heater voltage (&ac or dc), . e e o o s	6.3 V	Heater voltage (&ac or dc), . e e o o s 6,3 volts
Heater current , .,	300 mA	Heater current , ., ¢« « o o o 0,300ampere
v HeatGrV0lmge..... 6.3	6.3 V	v HeatGrV0lmge..... 6.3 6.3 volts
Series triode-plate resistor , 1	1 MΩ	Series triode-plate resistor , 1 1 megohm



SOURCE DATA APPENDIX

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1948 Brimar Radio Valve Manual

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

1948 BRIMAR RADIO VALVE MANUAL

Section 2 · Tuning Indicator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current	300 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TargetSupplyVoltage	250 V	—
ControlGridVoltageForZeroShadow	-22 V	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1950 Sylvania

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

1950 SYLVANIA

Section 2 · Tuning Indicator

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode plate current maximum	0.24 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Shadow-angle control grid voltage	-22 V	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1958 Brimar Radio Valve No 7

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

1958 BRIMAR RADIO VALVE NO 7

Section 2 · Tuning Indicator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	300 mA	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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

Section 2 · Tuning Indicator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum target voltage	285 V	TuningIndicator
Minimum target voltage	125 V	TuningIndicator
Plate voltage	250 V	TuningIndicator; Through1Megohm
Target voltage	250 V	TuningIndicator
Plate current	0.24 mA	TuningIndicator
Target current	4 mA	TuningIndicator

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid voltage for closed shadow	-22 V	TuningIndicator
Grid voltage for open shadow	0 V	TuningIndicator



SOURCE DATA APPENDIX

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 and target supply voltage	250 V	Typical

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid voltage for zero-degree shadow	-22 V	250V
Plate current at grid 0 V	0.24 mA	250V

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 2 · Tuning Indicator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Target current at grid 0 V	4 mA	250V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum target voltage	285 V	—
Minimum target voltage	100 V	—

TUBE TINKER

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

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