

ELECTRONIC TUBE REFERENCE

6AF6G

Tuning Indicator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TUNING INDICATOR

Cathode-ray tuning indicator with two independently controlled shadow angles on a circular fluorescent screen.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7AG	BASE PINS	8
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7AG - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IS	A	IS – Internal Screen	CONNECTED
PIN2 – H	–	H – Heater	CONNECTED
PIN3 – 2G1	B	G1 – Control Grid	CONNECTED
PIN4 – 1G1	A	G1 – Control Grid	CONNECTED
PIN5 – T	A	T – Target	CONNECTED
PIN7 – H	–	H – Heater	CONNECTED
PIN8 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Tuning Indicator	
MAXIMUM PLATE VOLTAGE	135 V
MAXIMUM CATHODE CURRENT	2 mA
<i>Published promoted fields populated from the datasheet; identical repeated sections compressed where applicable.</i>	

Cathode-ray tuning indicator with two independently controlled shadow angles on a circular fluorescent screen.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · Tuning Indicator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	150 mA	Nominal
Maximum Plate Voltage	250 V	—
Maximum Cathode Current	2 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
IndicatorSections	2	Twin visual indicators

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

Section 1 · Tuning Indicator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Target voltage maximum	250 V	TuningIndicator
Target voltage minimum	125 V	TuningIndicator
Target voltage	250 V	TuningIndicator;Shadow=0deg

Characteristic		
Parameter	Published Value	Condition / Note
Ray-control voltage range	4-155 V	Shadow=0deg
Ray-control voltage	0 V	Shadow=100deg
Target current	3.75 mA	Shadow=100deg



SOURCE DATA APPENDIX

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 · Tuning Indicator

Other		
Parameter	Published Value	Condition / Note
Target Voltage	135 V	—

Characteristic		
Parameter	Published Value	Condition / Note
Target Current	1.5 mA	TargetVoltage=135V
RayControlElectrodeVoltage	81 V	ZeroDegreeShadowAngle



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Tuning Indicator

Other		
Parameter	Published Value	Condition / Note
Target voltage maximum	135 V	TuningIndicator

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Target voltage minimum	90 V	TuningIndicator
Ray-control electrode supply voltage maximum	135 V	TuningIndicator
Target voltage	100 V	TuningIndicator
Target current	0.9 mA	TuningIndicator;100VTarget
Target voltage	135 V	TuningIndicator
Target current	1.5 mA	TuningIndicator;135VTarget
Display	Two independent circular shadow angles	Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ray-control electrode voltage for zero shadow	60 V	TuningIndicator;100VTarget
Ray-control electrode voltage for zero shadow	81 V	TuningIndicator;135VTarget