



ELECTRONIC TUBE REFERENCE

6AR6

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

High-current beam-power amplifier intended for power-output service, with published Class-A operating conditions and substantial cathode-current capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6BQ	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	21000 Ω
TRANSCONDUCTANCE	0.0054 S
MAXIMUM PLATE VOLTAGE	565 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	19 W
MAXIMUM SCREEN DISSIPATION	3.2 W
MAXIMUM CATHODE CURRENT	115 mA
<i>Promoted from the printed maximum-rating/characteristic columns; operating points retained as section parameters.</i>	

6AR6 is described in the supplied Tung-Sol datasheet as a high-current beam-power amplifier. Published maximum ratings and core section characteristics were extracted into the technical tables.



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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	300 V	ClassA
Control-grid voltage	-36 V	ClassA
Plate current	58 mA	ClassA
Screen current	4 mA	ClassA



SOURCE OPERATING CONDITIONS

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195X Raytheon Special Purpose Tubes

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

195X RAYTHEON SPECIAL PURPOSE TUBES

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid voltage	-22.5 V	PowerAmplifier
Plate voltage	250 V	PowerAmplifier
Screen voltage	250 V	PowerAmplifier
Plate current	75 mA	PowerAmplifier
Screen current	5 mA	PowerAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	21000 Ω	Section1
Transconductance	5400 μS	Section1


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	1.2 A	—
Plate voltage	250 V	ClassA1
Grid 2 voltage	250 V	ClassA1


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 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published table
Heater current	1.2 A	Published table
Plate resistance	21000 ohm	Published table
Transconductance	5400 μS	Published table

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	BeamPower
Screen voltage	250 V	BeamPower
Plate current	90 mA	BeamPower
Screen current	5 mA	BeamPower