

ELECTRONIC TUBE REFERENCE

6N7

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Dual power triode intended primarily for Class B audio power-amplifier service. Published push-pull operation produces about 10 W, while the sections may also be paralleled for lower-power Class A use.

GENERAL CHARACTERISTICS

BASE DESIGNATION	RMA 8B	BASE PINS	8
NOMINAL HEATER	6.3 V / 800 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	11000 Ω
TRANSCONDUCTANCE	0.0032 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	6.05 W
MAXIMUM CATHODE CURRENT	125 mA
Representative row for the identical twin triode units. Absolute maximum plate voltage and average plate dissipation from Class B ratings.	

SECTION2 Triode	
PLATE RESISTANCE	11000 Ω
TRANSCONDUCTANCE	0.0032 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	6.05 W
MAXIMUM CATHODE CURRENT	125 mA
Second identical physical triode section; added to align physical rows with SectionCount.	

The 6N7 is a DualTriode intended for push-pull Class B audio service. Published ratings, characteristics and typical operating data from the supplied datasheet were captured.

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 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	300 V	ClassB;PushPull;TwoTubes
No-signal plate current per plate	17.5 mA	ClassB;PushPull;TwoTubes
Load resistance plate-to-plate	10000 Ω	ClassB;PushPull;TwoTubes
Power output	10 W	ClassB;PushPull;TwoTubes
Plate voltage	294 V	ClassA;ParallelSections
Grid bias	-6 V	ClassA;ParallelSections
Plate current	7 mA	ClassA;ParallelSections
Power output	400 mW	ClassA;ParallelSections

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	3200 μS	ClassA;ParallelSections
Amplification factor	35	ClassA;ParallelSections

SOURCE OPERATING CONDITIONS

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1940 RCA

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

1940 RCA

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	800 mA	Published nominal value
Transconductance	3200 μ S	Published operating characteristic
Amplification factor	35	Published operating characteristic

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	5 W	Published maximum or stated design maximum
Audio power output	10 W	ClassB; 300 V
Audio power output	20 W	TwoTubes; ClassB; 300 V

[SOURCE DATA APPENDIX](#)

SOURCE OPERATING CONDITIONS

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1950 Sylvania

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1950 SYLVANIA

Section 1 · Triode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Class B power amplifier	ClassB

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1953 RFT Rundfunk Technik

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1953 RFT RUNDFUNK TECHNIK

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	800 mA	Nominal
Maximum Plate Voltage	300 V	—
Maximum Plate Dissipation	7 W	—
Maximum Cathode Current	125 mA	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	3100 μ S	Typical
Amplification Factor	35	Typical
Plate Resistance	11000 ohm	Typical



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195X General Electric Essential Characteristics

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195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	300 V	ClassB PushPull TwoTubes
Control-grid voltage	0 V	ClassB PushPull TwoTubes
Plate current	35 mA	ClassB PushPull TwoTubes
Load resistance	8000 Ω	ClassB PushPull TwoTubes
Power output	10 W	ClassB PushPull TwoTubes
Plate voltage	294 V	ClassA Parallel
Control-grid voltage	-6 V	ClassA Parallel

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	7 mA	ClassA Parallel

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	11000 Ω	ClassA Parallel
Transconductance	3200 μS	ClassA Parallel
Amplification factor	35	ClassA Parallel


SOURCE DATA APPENDIX

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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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	800 mA	—
Plate voltage	250294 V	Typical operating conditions
Plate current	67 mA	Typical 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 voltage	250 V	ClassA
Power_output	10 W	PushPull,TwoTubes,ClassB

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	3200 uS	ClassA
Plate resistance	11000 ohm	ClassA
Amplification factor	35	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	3 pF	Section1
Output capacitance	3 pF	Section1



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1968 General Electric Co

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1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Plate Current	140 mA	ClassB
Plate Voltage	294 V	ClassA
Grid Voltage	-6 V	ClassA
Effective Plate-to-Plate Load Resistance	8000 ohm	ClassB,TwoTubes
Maximum-Signal Power Output	10 W	ClassB,TwoTubes
Total Harmonic Distortion	8 %	ClassB,TwoTubes



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