

ELECTRONIC TUBE REFERENCE

3B7

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Directly heated high-frequency twin triode for low-voltage battery operation, providing two triode units suitable for amplification and push-pull service in portable radio-frequency equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7BE	BASE PINS	8
NOMINAL HEATER	2.8 V / 220 mA	PARALLEL HEATER	1.4 V / 440 mA
HEATING	Direct	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	100000 Ω
TRANSCONDUCTANCE	0.0015 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM CATHODE CURRENT	15 mA
Published ratings/characteristics promoted where semantically applicable; supplemental values retained in parameter table.	

SECTION2 Triode	
PLATE RESISTANCE	100000 Ω
TRANSCONDUCTANCE	0.0015 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM CATHODE CURRENT	15 mA
<i>Second identical physical triode section; added to align rows with SectionCount.</i>	

3B7 is listed in the supplied receiving-tube handbook as a high-frequency twin triode. The published heater/filament rating is 1.4 V at 0.22 A.

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	180 V	Published handbook rating
Plate voltage	135 V	ClassAB PushPull TwoTubes
Control-grid bias	0 V	ClassA
Plate current	18.2 mA	ClassA
Load resistance	16000 ohm	ClassAB PushPull TwoTubes
Power output	1.5 W	ClassAB PushPull TwoTubes

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1900 μ S	Published handbook characteristic
Amplification factor	20	Published handbook characteristic
Heater/filament voltage	1.4 V	Published heater/filament rating
Heater/filament current	220 mA	Published heater/filament rating

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage Series	2.8 V	SeriesFilaments
Heater Voltage Parallel	1.4 V	ParallelFilaments

TUBE TINKER

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