



ELECTRONIC TUBE REFERENCE

2A3H

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Heater-cathode triode power amplifier for audio output service, using a 2.5 V heater and substantial Class-A power capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.5 V / 2.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	800 Ω
TRANSCONDUCTANCE	0.00525 S
AMPLIFICATION FACTOR	4.2
MAXIMUM PLATE VOLTAGE	300 V
<i>Published ratings, characteristics, operating conditions and capacitances reviewed.</i>	

2A3H is described in the supplied Raytheon datasheet as a heater-cathode triode power amplifier. The published heater/filament rating is 2.5 V at 2.5 A.

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
Maximum plate voltage	300 V	Published datasheet rating
Plate voltage	250 V	ClassA
Control-grid bias	45 V	ClassA
Plate current	60 mA	ClassA
Load resistance	2500 ohm	ClassA
Power output	3.5 W	ClassA
Push-pull plate voltage	300 V	ClassAB PushPull TwoTubes
Push-pull fixed-bias grid voltage	62 V	ClassAB PushPull TwoTubes
Push-pull no-signal plate current per tube	40 mA	ClassAB PushPull TwoTubes
Push-pull load resistance fixed bias	3000 ohm	ClassAB PushPull TwoTubes
Push-pull power output fixed bias	15 W	ClassAB PushPull TwoTubes
Push-pull load resistance self bias	5000 ohm	ClassAB PushPull TwoTubes
Push-pull power output self bias	10 W	ClassAB PushPull TwoTubes

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	800 ohm	Published datasheet characteristic
Transconductance	5250 μ S	Published datasheet characteristic
Amplification factor	4.2	Published datasheet characteristic
Heater/filament voltage	2.5 V	Published heater/filament rating

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament current	2.5 A	Published heater/filament rating

TUBE TINKER

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