

ELECTRONIC TUBE REFERENCE

2A3S

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Higher-rated directly heated 2A3-family audio power triode for Class A output stages. Increased plate-voltage and dissipation capability extends the traditional 2A3 operating range, with published conditions reaching roughly 9 W output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	UX4	BASE PINS	4
NOMINAL HEATER	2.5 V / 2.5 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	800 Ω
TRANSCONDUCTANCE	0.0052 S
AMPLIFICATION FACTOR	4.1
MAXIMUM PLATE VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	28 W
MAXIMUM CATHODE CURRENT	100 mA

Solid-plate directly heated 2A3 replacement audio triode with enhanced power capability. The supplied Emission Labs sheet was read for filament data, maximum ratings, representative operating points, gm/rp/mu, output conditions, capacitances, and rectifier filter conditions as applicable.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	2.5 V	—
Filament current	2.5 A	—
Plate resistance	800 ohm	ClassA
Amplification factor	4.1	ClassA
Transconductance	5200 uS	ClassA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Plate current	60 mA	ClassA
Grid voltage	-45 V	ClassA
Load resistance	2500 ohm	ClassA
Output power	3.5 W	ClassA
High-power output power	9.3 W	—