



ELECTRONIC TUBE REFERENCE

RS242

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Directly heated Telefunken-derived transmitter and audio power triode suitable for Class A operation. Rated for approximately 17 W plate dissipation and 500 V plate voltage, with moderate gain and relatively low plate resistance.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4 V / 900 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	4700 Ω
TRANSCONDUCTANCE	0.0046 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	500 V
MAXIMUM PLATE DISSIPATION	17 W
MAXIMUM CATHODE CURRENT	70 mA

Directly heated Telefunken-derived RS242 transmitter/audio triode. The supplied Emission Labs sheet was read for filament data, maximum ratings, representative operating points, gm/rp/ μ , 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	4 V	—
Filament current	900 mA	—
Plate resistance	4700 ohm	ClassA
Amplification factor	17	ClassA
Transconductance	4600 uS	ClassA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	400 V	ClassA
Plate current	30 mA	ClassA
Grid voltage	-10.9 V	ClassA
Driver output voltage	60 V RMS	PlateVoltage=350V;PlateCurrent=20mA
Circuit gain	16.3	DriverService

TUBE TINKER

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and their source documents.

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