



ELECTRONIC TUBE REFERENCE

SRS505

Power - Pentode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Kilowatt-class RFT transmitting pentode capable of approximately 1.5 kW Class C RF output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	10 V / 16.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
TRANSCONDUCTANCE	0.009 S
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	700 W
MAXIMUM SCREEN DISSIPATION	150 W
MAXIMUM GRID DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	900 mA
<i>Published ratings and characteristics promoted where clearly stated.</i>	

Radiation-cooled 1-kW transmitting pentode for communications and industrial RF generators.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	10 V	Nominal
HeaterCurrentNominal	16.5 A	Nominal
Maximum Plate Voltage	3000 V	—
Maximum Screen Voltage	600 V	—
Maximum Plate Dissipation	700 W	—
Maximum Screen Dissipation	150 W	—
MaximumGridDissipation	10 W	—
Maximum Cathode Current	900 mA	—
Maximum Frequency	40 MHz	—
RFOutputPower	1500 W	ClassC; ≤3 MHz

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	9000 μS	Typical

TUBE TINKER

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and their source documents.

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