ELECTRONIC TUBE REFERENCE

SRS457

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Transmitting power tetrode designed for RF amplification, communications, industrial RF generation, oscillation, modulation, or frequency multiplication.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	6.3 V / 10 A	**PARALLEL HEATER**	– / –
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Tetrode

TRANSCONDUCTANCE	0.0055 S
MAXIMUM PLATE VOLTAGE	5000 V
MAXIMUM SCREEN VOLTAGE	700 V
MAXIMUM PLATE DISSIPATION	500 W
MAXIMUM SCREEN DISSIPATION	65 W
MAXIMUM GRID DISSIPATION	25 W
MAXIMUM CATHODE CURRENT	600 mA

Promoted ratings/characteristics are source-published values; additional published values and operating examples are preserved in the parameter table.

SRS457 is a radiation-cooled transmitting tetrode intended for communications, industrial RF generators, audio-frequency amplification. The source publishes heater data, static characteristics, operating examples, limiting ratings, capacitances, and mechanical or cooling requirements as applicable.

SOURCE OPERATING CONDITIONS

1953 RFT Rundfunk Technik

SOURCE PDF

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Tetrode

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
HeaterVoltageNominal	**10 V**	Nominal
HeaterCurrentNominal	**10 A**	Nominal
Maximum Plate Voltage	**5000 V**	—
Maximum Screen Voltage	**700 V**	—
Maximum Plate Dissipation	**500 W**	—
Maximum Screen Dissipation	**65 W**	—
MaximumGridDissipation	**25 W**	—
Maximum Cathode Current	**700 mA**	—
Maximum Frequency	**110 MHz**	—

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Transconductance	**5500 µS**	Typical

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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