

ELECTRONIC TUBE REFERENCE

GS17B

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

High-power Russian tetrode for RF generation and amplification around 1 GHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	3.4 V / —	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.055 S
MAXIMUM PLATE VOLTAGE	5500 V
MAXIMUM SCREEN VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	1000 W
MAXIMUM CATHODE CURRENT	2.5 A
Promoted from English maximum/characteristic tables; grid, capacitance and output-power data retained in parameters.	

The GS17B is a high-power rf tetrode for generation and amplification around 1 ghz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Electronintorg

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

1968 ELECTRONINTORG

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	148 A–172 A	—
Mutual conductance	55 mA/V	—
Grid 1 cutoff voltage maximum	170 V	—
Gain coefficient	7.5–10.5	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	5500 V	—
Maximum grid 2 voltage	1000 V	—
Maximum cathode/anode current	2.5 A	—
Anode dissipation	1000 W	—
Grid 2 current maximum	400 mA	AnodeVoltage=1kV;Grid2=0.6kV
Power gain	5	—
Oscillator output power minimum	4.6 kW	—
Grid 1 dissipation	50 W	—
Maximum operating frequency	960 MHz	—

TUBE TINKER

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

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