



ELECTRONIC TUBE REFERENCE

GS23B

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Russian power tetrode for microwave-frequency RF generation and amplification to approximately 1 GHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 5.7 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.02 S
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	500 V
MAXIMUM PLATE DISSIPATION	1500 W
MAXIMUM CATHODE CURRENT	1.9 A
<i>Promoted from English maximum/characteristic tables; grid, capacitance and output-power data retained in parameters.</i>	

The GS23B is a power tetrode for rf generation and amplification to 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	5.3 A–6.1 A	—
Mutual conductance	20 mA/V	—
Cutoff voltage maximum	65 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	3000 V	—
Maximum grid 2 voltage	500 V	—
Maximum cathode/anode current	1.9 A	—
Anode dissipation	1500 W	—
Power gain minimum	8	AnodeVoltage=2.1kV;Grid2=400V;AnodeCurrent=1A
Cathode heating time maximum	210 s	—
Output power over 1000 h minimum	400 W	—
Grid 2 dissipation	12 W	—
Grid 1 dissipation	1.5 W	—
Operating frequency maximum	1000 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output capacitance	9.5–13.5 pF	—
Transfer capacitance maximum	0.025 pF	—

TUBE TINKER

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and their source documents.

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