

ELECTRONIC TUBE REFERENCE

GS31B

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Grounded-grid metal-ceramic RF power triode for continuous-wave generation and amplification. Approximately 1 kW plate dissipation and multi-kilovolt capability provide substantial radio-frequency power in a compact transmitting format.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 3.4 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.025 S
MAXIMUM PLATE VOLTAGE	2500 V
MAXIMUM PLATE DISSIPATION	1000 W
MAXIMUM GRID DISSIPATION	22 W
MAXIMUM CATHODE CURRENT	1.4 A
Promoted from English maximum values and characteristics.	

The GS31B is a grounded-grid rf triode for cw generation and amplification.

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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	3.1 A–3.7 A	—
Mutual conductance	25 mA/V	—
Operating point grid voltage	-12--6 V	AnodeVoltage=2kV;AnodeCurrent=250mA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	2500 V	—
Maximum cathode/anode current	1.4 A	—
Anode dissipation	1000 W	—
Grid dissipation	22 W	—
Warm-up time maximum	120 s	—
Minimum output power	360 W	AnodeVoltage=1.8kV
Grid voltage instantaneous range	-400–120 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	19–24 pF	—
Output capacitance maximum	0.12 pF	—
Transfer capacitance	3.8–5.2 pF	—