



ELECTRONIC TUBE REFERENCE

GS13

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Soviet centimeter-wave power triode for microwave RF generation and amplification. Manufacturer data specifies useful output at wavelengths around 7–9 cm, placing it firmly in specialized microwave service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	0
NOMINAL HEATER	6.3 V / 490 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.018 S
MAXIMUM PLATE VOLTAGE	350 V
MAXIMUM PLATE DISSIPATION	15 W
MAXIMUM CATHODE CURRENT	85 mA
Full electrical-data audit completed for this tube.	

The GS13 is a metal-ceramic triode for generation, amplification, and frequency multiplication in centimeter and decimeter bands.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Russian

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

195X RUSSIAN

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6–6.6 V	Published range
Maximum anode voltage	350 V	Centimeter-wave service
Maximum cathode current	85 mA	Published limit

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	450 mA–530 mA	Published range
Transconductance	15— mA/V	Published minimum/nominal
Grid operating point	-3.5--0.8 V	Published range
Grid-anode capacitance	1.5–2.1 pF	Published range
Grid-cathode capacitance	2.4–3.6 pF	Published range
Anode-cathode capacitance	0.04 pF	Maximum
RF output power at 7.2 cm	1 W	Ua 220-250 V; Ia 55-60 mA
RF output power at 9 cm	2 W	Ua 220-250 V; Ia 55-60 mA