

ELECTRONIC TUBE REFERENCE

GU50

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Medium-power transmitting pentode for RF power amplifiers, oscillators, and modulation stages in telecommunications, electro-medical, television, and radiotelephone equipment. A versatile professional RF power tube.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	12.6 V / 765 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.004 S
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	40 W
MAXIMUM SCREEN DISSIPATION	5 W
MAXIMUM GRID DISSIPATION	1 W
English text primary; Russian used only to verify/repair OCR.	

Medium-power transmitting pentode for RF power amplifiers, oscillators, and modulation stages in telecommunications, electro-medical, television, and radiotelephone equipment.



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 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	3000–5500 μS	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	13–15 pF	—
Output Capacitance	10.3 pF	max
Transfer Capacitance	0.1 pF	max

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Voltage $\geq 6.5\text{m}$	1000 V	—
Anode Voltage 5–4.5m	800 V	—
Anode Voltage 4.5–3.5m	700 V	—
Anode Voltage 3.5–2.5m	600 V	—
Maximum Output Power	55 W	—
Output Power after 1750 h	40 W	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

196X Lamina

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

196X LAMINA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	120 MHz	—
Input capacitance	14 pF	—
Output capacitance	9 pF	—
Grid-plate capacitance	<0.09 pF	—

TUBE TINKER

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and their source documents.

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