

ELECTRONIC TUBE REFERENCE

GMI5

Specialized - Switching Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Russian high-power tetrode designed for pulse-modulator or pulse-power switching service in RF equipment, controlling high-voltage, high-current pulses rather than continuous linear amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	26 V / 1.75 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
MAXIMUM PLATE VOLTAGE	20000 V
MAXIMUM SCREEN VOLTAGE	1250 V
MAXIMUM PLATE DISSIPATION	50 W
MAXIMUM SCREEN DISSIPATION	6 W
MAXIMUM GRID DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	27 A
Maximum pulse/modulator values promoted from English limit-operating table.	

The GMI5 is a pulse-modulator tetrode used as a high-voltage pulse power switch.

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	1.6 A–1.9 A	—
Peak anode current minimum	16 A	AnodeVoltage=20kV;Grid2=1.25kV;PulseDuration=2us;PulseRate=500/s
Average grid 2 current	0.5–5 mA	PulseRate=500/s
Average grid 1 current	0.5–3 mA	PulseRate=500/s
Negative grid 1 cutoff voltage maximum	800 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	40–75 pF	—
Output capacitance	4–13 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum pulse duration	5 us	—