GMI-83V

TETRODE

The GMI-83V tetrode is used as a power amplifier in pulse modulator circuits

GENERAL

Cathode: indirectly heated, oxide-coated. Envelope: glass, with base. Height: at most 146.5 mm. Diameter: at most 65 mm. Mass: at most 300 g



1 - grid 1; 2 - cathode and heater; 3 - heater; 4 - grid 2; A - anode-top cap

OPERATING ENVIRONMENTAL CONDITIONS		
Ambient temperature, °C	-10 to +55	

BASIC DATA Electrical Parameters	
Heater voltage, V	25
Heater current, A	2-2.5
Peak anode current, A, at least	15
Peak grid 2 current and peak grid 1 current (at anode voltage 20 kV, grid 2 voltages 1.25 kV, grid 1 voltage -800V, peak grid 1 excess voltage 250 V), A, at least	0
Cutoff voltage, V	300- 700
Interelectrode capacitan	ce, pF:
input	30-35
output	5-11
transfer, at most	1
Electric strength (at anode voltage 20 kV, grid 2 voltage 1.25 kV, grid 1 voltage -800 V, peak grid 1 excess voltage 250 V, pulse duration 2 μ s, pulse frequency 500 pulses/s), number of sparkings, at most	25
Electrical parameters over 500 h of s	ervice:
peak anode current, A, at least	13
electric strength, number of sparkings:	
for 80 % of tubes, at most	20
for 20 % of tubes, at most	50

Limit Operating Values	
Heater voltage, V	22.5-27.5
Anode voltage, kV	18
Grid 1 voltage, kV	-1
Grid 2 voltage, kV	1.25
Peak grid 1 excess voltage, V	250
Peak cathode current, A	25
Dissipation, W:	
DISSI	pation, W:
anode	pation, W: 60
anode grid 2	pation, W: 60 9
anode grid 2 grid 1	pation, W: 60 9 3
anode grid 2 grid 1 Pulse duration, µs	pation, W: 60 9 3 5
anode grid 2 grid 1 Pulse duration, µs Warm up time, s, at least	pation, W: 60 9 3 5 180







Characteristic Curves of Grid 1 Cutoff Voltage versus Anode Voltage