

ELECTRONIC TUBE REFERENCE

GMI14B

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 / 2.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1	Tetrode
No fixed ratings recorded. Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table.	

The GMI-14B tetrode is used as a pulse power switch in RF equipment and is forced-air cooled.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
pulse po-) /e A-anom;fl-nogorpesa	14	The MMW-14E tetrode is used as a pulse po-) /e A-anom;fl-nogorpesa-
grid [1]	1	wer switch in RF equipment. 1 0 S 1,3,5,2, 4, 6~ grid; 11—
grid [2]	0	wer switch in RF equipment. 1 0 S 1,3,5,2, 4, 6~ grid; 11—
grid [3]	1352	wer switch in RF equipment. 1 0 S 1,3,5,2, 4, 6~ grid; 11—
grid [4]	4	wer switch in RF equipment. 1 0 S 1,3,5,2, 4, 6~ grid; 11—
grid [5]	6	wer switch in RF equipment. 1 0 S 1,3,5,2, 4, 6~ grid; 11—
grid [6]	11	wer switch in RF equipment. 1 0 S 1,3,5,2, 4, 6~ grid; 11—
temperature, °C	392 C	CYCKOPEHMEM, M/CZ i, 392 Ambient temperature, °C
voltage (ACorDC), V [1]	26 V	Hanps»ehue Hakana (~unm=), B 26 Heater voltage (ACorDC), V 26
voltage (ACorDC), V [2]	26 V	Hanps»ehue Hakana (~unm=), B 26 Heater voltage (ACorDC), V 26
grid [1]	3.5 A	Tok aHoAa B UMy ibce (NpU HaNpsXXeHWsAX aHoaa Peak anode current (at anode voltage 3.5kV, grid 2
grid [2]	2 A	Tok aHoAa B UMy ibce (NpU HaNpsXXeHWsAX aHoaa Peak anode current (at anode voltage 3.5kV, grid 2
voltage [1]	35 kV	3,5 kB, BTOpOW ceTkun 2,15 kB, cmeweHuns nepsoi voltage 2.15kV, grid 1 bias voltage — 0.9kV,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage [2]	215 kV	3,5 kB, BTOpOW ceTkun 2,15 kKB, cmeweHuns nepsoi voltage 2.15kV, grid 1 bias voltage — 0.9kV,
voltage [3]	2.15 kV	3,5 kB, BTOpOW ceTkun 2,15 kKB, cmeweHuns nepsoi voltage 2.15kV, grid 1 bias voltage — 0.9kV,
voltage [4]	1 kV	3,5 kB, BTOpOW ceTkun 2,15 kKB, cmeweHuns nepsoi voltage 2.15kV, grid 1 bias voltage — 0.9kV,
voltage [5]	-0.9 kV	3,5 kB, BTOpOW ceTkun 2,15 kKB, cmeweHuns nepsoi voltage 2.15kV, grid 1 bias voltage — 0.9kV,
voltage [1]	9 V	ceTKu MuHyc 0,9 kB, npeBbilweHns nepeon ceTkn peak grid 1 excess voltage 350 V), A, atleast 130
voltage [2]	1 V	ceTKu MuHyc 0,9 kB, npeBbilweHns nepeon ceTkn peak grid 1 excess voltage 350 V), A, atleast 130
voltage [3]	350 V	ceTKu MuHyc 0,9 kB, npeBbilweHns nepeon ceTkn peak grid 1 excess voltage 350 V), A, atleast 130
voltage [4]	130 V	ceTKu MuHyc 0,9 kB, npeBbilweHns nepeon ceTkn peak grid 1 excess voltage 350 V), A, atleast 130
voltage [1]	350 A	B umnyrnece 350 B), A,He meHee 130 Peak grid 2 current (at anode voltage 3.5 kV,
voltage [2]	130 A	B umnyrnece 350 B), A,He meHee 130 Peak grid 2 current (at anode voltage 3.5 kV,
voltage [3]	2 A	B umnyrnece 350 B), A,He meHee 130 Peak grid 2 current (at anode voltage 3.5 kV,
voltage [4]	3.5 A	B umnyrnece 350 B), A,He meHee 130 Peak grid 2 current (at anode voltage 3.5 kV,
voltage [1]	2 kV	TOK BTOPO#A CETKM B UMNYbCE (NMPU HANPAXKEHNUAX grid 2 voltage 2.15kV, grid 1 bias voltage —0.9 kV,
voltage [2]	2.15 kV	TOK BTOPO#A CETKM B UMNYbCE (NMPU HANPAXKEHNUAX grid 2 voltage 2.15kV, grid 1 bias voltage —0.9 kV,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage [3]	1 kV	TOK BTOPO#A CETKM B UMNYbCE (NMPU HANPAXKEHNUAX grid 2 voltage 2.15kV, grid 1 bias voltage —0.9 kV,
voltage [4]	-0.9 kV	TOK BTOPO#A CETKM B UMNYbCE (NMPU HANPAXKEHNUAX grid 2 voltage 2.15kV, grid 1 bias voltage —0.9 kV,
voltage [1]	35 V	aHoga 3,5 kB, BTopoit ceTku 2,15 kB, cmetweHuns peak grid 1 excess voltage 350 V), A, atmost 15
voltage [2]	215 V	aHoga 3,5 kB, BTopoit ceTku 2,15 kB, cmetweHuns peak grid 1 excess voltage 350 V), A, atmost 15
voltage [3]	1 V	aHoga 3,5 kB, BTopoit ceTku 2,15 kB, cmetweHuns peak grid 1 excess voltage 350 V), A, atmost 15
voltage [4]	350 V	aHoga 3,5 kB, BTopoit ceTku 2,15 kB, cmetweHuns peak grid 1 excess voltage 350 V), A, atmost 15
voltage [5]	15 V	aHoga 3,5 kB, BTopoit ceTku 2,15 kB, cmetweHuns peak grid 1 excess voltage 350 V), A, atmost 15
voltage [1]	9 A	nepson ceTku MuHyc 0,9 kB, npeBbilweHus nepson Peak grid 1 current (at anode voltage 3.5 kV,
voltage [2]	1 A	nepson ceTku MuHyc 0,9 kB, npeBbilweHus nepson Peak grid 1 current (at anode voltage 3.5 kV,
voltage [3]	3.5 A	nepson ceTku MuHyc 0,9 kB, npeBbilweHus nepson Peak grid 1 current (at anode voltage 3.5 kV,
voltage– [1]	350 kV	ceTku B umnynece 350 B), A, He Gonee 15 grid 2 voltage 2.15 kV, grid 1 bias voltage— 0,9 kV,
voltage– [2]	15 kV	ceTku B umnynece 350 B), A, He Gonee 15 grid 2 voltage 2.15 kV, grid 1 bias voltage— 0,9 kV,
voltage– [3]	2 kV	ceTku B umnynece 350 B), A, He Gonee 15 grid 2 voltage 2.15 kV, grid 1 bias voltage— 0,9 kV,
voltage– [4]	2.15 kV	ceTku B umnynece 350 B), A, He Gonee 15 grid 2 voltage 2.15 kV, grid 1 bias voltage— 0,9 kV,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage– [5]	1 kV	ceTku B umnynece 350 B), A, He Gonee 15 grid 2 voltage 2.15 kV, grid 1 bias voltage— 0,9 kV,
voltage– [6]	9 kV	ceTku B umnynece 350 B), A, He Gonee 15 grid 2 voltage 2.15 kV, grid 1 bias voltage— 0,9 kV,
voltage [1]	1 V	Tok nepBoW CETKN B UMNYNbCe (NPU HANPSXKEHUAX peak grid 1 excess voltage 350 V), A, atmost 22
voltage [2]	350 V	Tok nepBoW CETKN B UMNYNbCe (NPU HANPSXKEHUAX peak grid 1 excess voltage 350 V), A, atmost 22
voltage [3]	22 V	Tok nepBoW CETKN B UMNYNbCe (NPU HANPSXKEHUAX peak grid 1 excess voltage 350 V), A, atmost 22
current, uA,atmost [1]	35 uA	aHopaa 3,5 kB, BTopow ceTku 2,15 kB, cmelleHus Grid 1 inverse current, uA,atmost 350
current, uA,atmost [2]	215 uA	aHopaa 3,5 kB, BTopow ceTku 2,15 kB, cmelleHus Grid 1 inverse current, uA,atmost 350
current, uA,atmost [3]	1 uA	aHopaa 3,5 kB, BTopow ceTku 2,15 kB, cmelleHus Grid 1 inverse current, uA,atmost 350
current, uA,atmost [4]	350 uA	aHopaa 3,5 kB, BTopow ceTku 2,15 kB, cmelleHus Grid 1 inverse current, uA,atmost 350
voltage [1]	9 kV	nepson ceTku muHyc 0,9 kKB, npeBbsileHUsA nepson Negative cutoff voltage (at anode voltage 36 kV,
voltage [2]	36 kV	nepson ceTku muHyc 0,9 kKB, npeBbsileHUsA nepson Negative cutoff voltage (at anode voltage 36 kV,
current [1]	350 mA	ceTku B umnynece 350 B), A, He 6oree 22 grid 2 voltage 2 kV, anode current 1.5 mA),
current [2]	6 mA	ceTku B umnynece 350 B), A, He 6oree 22 grid 2 voltage 2 kV, anode current 1.5 mA),
current [3]	22 mA	ceTku B umnynece 350 B), A, He 6oree 22 grid 2 voltage 2 kV, anode current 1.5 mA),
current [4]	2 mA	ceTku B umnynece 350 B), A, He 6oree 22 grid 2 voltage 2 kV, anode current 1.5 mA),
current [5]	2 mA	ceTku B umnynece 350 B), A, He 6oree 22 grid 2 voltage 2 kV, anode current 1.5 mA),

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current [6]	1.5 mA	ceTku B umnynece 350 B), A, He 6oree 22 grid 2 voltage 2 kV, anode current 1.5 mA),
input,atmost il [1]	36	HanpspkeHusx aHoaa 36 kB, BTopoin ceTku 2 KB, input,atmost il 220
input,atmost il [2]	2	HanpspkeHusx aHoaa 36 kB, BTopoin ceTku 2 KB, input,atmost il 220
input,atmost il [3]	220	HanpspkeHusx aHoaa 36 kB, BTopoin ceTku 2 KB, input,atmost il 220
output,atmost [1]	15	Toke aHoga 1,5 MA), abConTHOE 3HageHue, output,atmost
output,atmost [2]	3	Toke aHoga 1,5 MA), abConTHOE 3HageHue, output,atmost
Heater voitage (ACorDC),V [1]	3	3KCNayaTauNoOHHbIE faHHble Heater voitage (ACorDC),V 23.5-28.5
Heater voitage (ACorDC),V [2]	23.5	3KCNayaTauNoOHHbIE faHHble Heater voitage (ACorDC),V 23.5-28.5
Heater voitage (ACorDC),V [3]	-28.5	3KCNayaTauNoOHHbIE faHHble Heater voitage (ACorDC),V 23.5-28.5
voltage (DC), kV	36 kV	Anode voltage (DC), kV 36
voltage, kV	1 kV	Hawbonbliee Hanps>keHue aHoaa Grid 1 bias voltage, kV
voltage,V [1]	36 V	(noctosHHoe), KB 36 Grid 1 excessvoltage,V 350
voltage,V [2]	1 V	(noctosHHoe), KB 36 Grid 1 excessvoltage,V 350
voltage,V [3]	350 V	(noctosHHoe), KB 36 Grid 1 excessvoltage,V 350
Dissipation, W	215 W	Hanbornbiuee Hanps>eHue BTopoit ceTku, kB 2,15 Dissipation, W:
anode	600	Haubonbluee HanpsXeHue CMeLLeHns Nepeo anode 600
grid [1]	1	Hanbonbliee Hanps>xeHWe NpeBbilieHns grid 1 .. 6
grid [2]	6	Hanbonbliee Hanps>xeHWe NpeBbilieHns grid 1 .. 6
current, A [1]	350 A	nepgonceTkn, B oL 350 Peak cathode current, A 165
current, A [2]	165 A	nepgonceTkn, B oL 350 Peak cathode current, A 165

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
pulse duration, us	10 us	Paccensaemas HanbosibLLaA MOLHOCTb, BT: Maximum pulse duration, us 10
pulse [1]	35	BTOPOM CETKOM . . .ot i i iieaennnn 35 Minimum pulse 1/duty factor 1,000
pulse [2]	1	BTOPOM CETKOM . . .ot i i iieaennnn 35 Minimum pulse 1/duty factor 1,000
pulse [3]	1000	BTOPOM CETKOM . . .ot i i iieaennnn 35 Minimum pulse 1/duty factor 1,000
temperature, °C	6 C	e e 6 Buib temperature, °C
Grid [1]	2	Averaged Peak Grid 2 Characteristic Curves: U; =26 V;
Grid [2]	26	Averaged Peak Grid 2 Characteristic Curves: U; =26 V;
anode [1]	180	180 gu“0\1 _ _ _ _ grid2-anode
anode [2]	0	180 gu“0\1 _ _ _ _ grid2-anode
anode [3]	1	180 gu“0\1 _ _ _ _ grid2-anode
Anode Characteristic Curves: U; = [1]	3	U] Z 3 4 3 5 Ua, KV fi:::gidk\'zak Grid 1-Anode Characteristic Curves: U; =26 V; U 7 2 3 q 5 5 UEZ. KY
Anode Characteristic Curves: U; = [2]	4	U] Z 3 4 3 5 Ua, KV fi:::gidk\'zak Grid 1-Anode Characteristic Curves: U; =26 V; U 7 2 3 q 5 5 UEZ. KY
Anode Characteristic Curves: U; = [3]	3	U] Z 3 4 3 5 Ua, KV fi:::gidk\'zak Grid 1-Anode Characteristic Curves: U; =26 V; U 7 2 3 q 5 5 UEZ. KY
Anode Characteristic Curves: U; = [4]	5	U] Z 3 4 3 5 Ua, KV fi:::gidk\'zak Grid 1-Anode Characteristic Curves: U; =26 V; U 7 2 3 q 5 5 UEZ. KY
Anode Characteristic Curves: U; = [5]	1	U] Z 3 4 3 5 Ua, KV fi:::gidk\'zak Grid 1-Anode Characteristic Curves: U; =26 V; U 7 2 3 q 5 5 UEZ. KY
Anode Characteristic Curves: U; = [6]	26	U] Z 3 4 3 5 Ua, KV fi:::gidk\'zak Grid 1-Anode Characteristic Curves: U; =26 V; U 7 2 3 q 5 5 UEZ. KY
Anode Characteristic Curves: U; = [7]	7	U] Z 3 4 3 5 Ua, KV fi:::gidk\'zak Grid 1-Anode Characteristic Curves: U; =26 V; U 7 2 3 q 5 5 UEZ. KY

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Characteristic Curves: 2 U; = [8]		U J Z 3 4 3 5 Ua, KV fi:::gidk\'\'zak Grid 1-Anode Characteristic Curves: U; =26 V; U 7 2 3 q 5 5 UEZ. KY
Anode Characteristic Curves: 3 U; = [9]		U J Z 3 4 3 5 Ua, KV fi:::gidk\'\'zak Grid 1-Anode Characteristic Curves: U; =26 V; U 7 2 3 q 5 5 UEZ. KY
Anode Characteristic Curves: 5 U; = [10]		U J Z 3 4 3 5 Ua, KV fi:::gidk\'\'zak Grid 1-Anode Characteristic Curves: U; =26 V; U 7 2 3 q 5 5 UEZ. KY
Anode Characteristic Curves: 5 U; = [11]		U J Z 3 4 3 5 Ua, KV fi:::gidk\'\'zak Grid 1-Anode Characteristic Curves: U; =26 V; U 7 2 3 q 5 5 UEZ. KY

TUBE TINKER

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