



ELECTRONIC TUBE REFERENCE

25T

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Eimac medium-mu transmitting power triode for audio-frequency amplifier or modulator duty and RF power-amplifier or oscillator service. Its 25 W plate dissipation and kilovolt-class plate ratings support compact transmitting applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	6.3 V / 3 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0025 S
AMPLIFICATION FACTOR	24
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM PLATE DISSIPATION	25 W
<i>Published maximum ratings and characteristics audited; additional applicable numerical data retained in parameter table.</i>	

The Eimac 25T is a power triode for audio-frequency amplifier or modulator and radio-frequency power-amplifier or oscillator service, usable at VHF frequencies.

SOURCE OPERATING CONDITIONS

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1950 Eimac Tubes

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

1950 EIMAC TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid - Plate	1.5	Grid - Plate 1.5 fLflf
Grid-F ilame n t [1]	2	Grid-F ilame n t 2 .7 fLflf
Grid-F ilame n t [2]	7	Grid-F ilame n t 2 .7 fLflf
Plate -F ilament [1]	0	Plate -F ilament - 0 .3 fLflf
Plate -F ilament [2]	3	Plate -F ilament - 0 .3 fLflf
T ransconductance (I b= [1]	25	T ransconductance (I b= 25 rna., Eb= 100 0, e c =-1 5) 2 500 fLmhos
T ransconductance (I b= [2]	100	T ransconductance (I b= 25 rna., Eb= 100 0, e c =-1 5) 2 500 fLmhos
T ransconductance (I b= [3]	0	T ransconductance (I b= 25 rna., Eb= 100 0, e c =-1 5) 2 500 fLmhos
T ransconductance (I b= [4]	-1	T ransconductance (I b= 25 rna., Eb= 100 0, e c =-1 5) 2 500 fLmhos
T ransconductance (I b= [5]	5	T ransconductance (I b= 25 rna., Eb= 100 0, e c =-1 5) 2 500 fLmhos
T ransconductance (I b= [6]	2	T ransconductance (I b= 25 rna., Eb= 100 0, e c =-1 5) 2 500 fLmhos
T ransconductance (I b= [7]	500	T ransconductance (I b= 25 rna., Eb= 100 0, e c =-1 5) 2 500 fLmhos
D-C Plate Vo ltage [1]	7	D-C Plate Vo ltage 7 50 1000 1500 2 000 200 0 vo lts
D-C Plate Vo ltage [2]	50	D-C Plate Vo ltage 7 50 1000 1500 2 000 200 0 vo lts
D-C Plate Vo ltage [3]	1000	D-C Plate Vo ltage 7 50 1000 1500 2 000 200 0 vo lts
D-C Plate Vo ltage [4]	1500	D-C Plate Vo ltage 7 50 1000 1500 2 000 200 0 vo lts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
D-C Plate Vo ltage [5]	2	D-C Plate Vo ltage 7 50 1000 1500 2 000 200 0 vo lts
D-C Plate Vo ltage [6]	0	D-C Plate Vo ltage 7 50 1000 1500 2 000 200 0 vo lts
D-C Plate Vo ltage [7]	200	D-C Plate Vo ltage 7 50 1000 1500 2 000 200 0 vo lts
D-C Plate Vo ltage [8]	0	D-C Plate Vo ltage 7 50 1000 1500 2 000 200 0 vo lts
Plate Dissipation, pe r t ube':' • • • • [1]	2 W	Plate Dissipation, pe r t ube':' • • • • 2 5 watts
Plate Dissipation, pe r t ube':' • • • • [2]	5 W	Plate Dissipation, pe r t ube':' • • • • 2 5 watts
D-C Grid Vol tage (app ro x .) [1]	-20	D-C Grid Vol tage (app ro x .) -20 - 30 -55 -80 vo lts
D-C Grid Vol tage (app ro x .) [2]	30	D-C Grid Vol tage (app ro x .) -20 - 30 -55 -80 vo lts
D-C Grid Vol tage (app ro x .) [3]	-55	D-C Grid Vol tage (app ro x .) -20 - 30 -55 -80 vo lts
D-C Grid Vol tage (app ro x .) [4]	-80	D-C Grid Vol tage (app ro x .) -20 - 30 -55 -80 vo lts
Peak A -F Grid Input Volt ag e [1]	205	Peak A -F Grid Input Volt ag e 205 2 10 2 30 27 0 vo lts
Peak A -F Grid Input Volt ag e [2]	2	Peak A -F Grid Input Volt ag e 205 2 10 2 30 27 0 vo lts
Peak A -F Grid Input Volt ag e [3]	10	Peak A -F Grid Input Volt ag e 205 2 10 2 30 27 0 vo lts
Peak A -F Grid Input Volt ag e [4]	2	Peak A -F Grid Input Volt ag e 205 2 10 2 30 27 0 vo lts
Peak A -F Grid Input Volt ag e [5]	30	Peak A -F Grid Input Volt ag e 205 2 10 2 30 27 0 vo lts
Peak A -F Grid Input Volt ag e [6]	27	Peak A -F Grid Input Volt ag e 205 2 10 2 30 27 0 vo lts
Peak A -F Grid Input Volt ag e [7]	0	Peak A -F Grid Input Volt ag e 205 2 10 2 30 27 0 vo lts
Z er o-Sig nal D-C Plate Cur rent [1]	43	Z er o-Sig nal D-C Plate Cur rent - 43 32 21 16 ma o
Z er o-Sig nal D-C Plate Cur rent [2]	32	Z er o-Sig nal D-C Plate Cur rent - 43 32 21 16 ma o
Z er o-Sig nal D-C Plate Cur rent [3]	21	Z er o-Sig nal D-C Plate Cur rent - 43 32 21 16 ma o

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Z er o-Sig nal D-C Plate Cur rent [4]	16	Z er o-Sig nal D-C Plate Cur rent - 43 32 21 16 ma o
Max.- Sign a l D-C Plate Current [1]	13 mA	Max.- Sign a l D-C Plate Current - 13 3 120 94 80 ma o
Max.- Sign a l D-C Plate Current [2]	3 mA	Max.- Sign a l D-C Plate Current - 13 3 120 94 80 ma o
Max.- Sign a l D-C Plate Current [3]	120 mA	Max.- Sign a l D-C Plate Current - 13 3 120 94 80 ma o
Max.- Sign a l D-C Plate Current [4]	94 mA	Max.- Sign a l D-C Plate Current - 13 3 120 94 80 ma o
Max.- Sign a l D-C Plate Current [5]	80 mA	Max.- Sign a l D-C Plate Current - 13 3 120 94 80 ma o
Max. -Sig na l Driving Power (ap prox.) [1]	1.4 W	Max. -Sig na l Driving Power (ap prox.) - 1.4 1.2 0 .8 0 .7 watts
Max. -Sig na l Driving Power (ap prox.) [2]	1.2 W	Max. -Sig na l Driving Power (ap prox.) - 1.4 1.2 0 .8 0 .7 watts
Max. -Sig na l Driving Power (ap prox.) [3]	0 W	Max. -Sig na l Driving Power (ap prox.) - 1.4 1.2 0 .8 0 .7 watts
Max. -Sig na l Driving Power (ap prox.) [4]	8 W	Max. -Sig na l Driving Power (ap prox.) - 1.4 1.2 0 .8 0 .7 watts
Max. -Sig na l Driving Power (ap prox.) [5]	0 W	Max. -Sig na l Driving Power (ap prox.) - 1.4 1.2 0 .8 0 .7 watts
Max. -Sig na l Driving Power (ap prox.) [6]	7 W	Max. -Sig na l Driving Power (ap prox.) - 1.4 1.2 0 .8 0 .7 watts
Effecti ve Load , Plate -to-Pl ate [1]	9200	Effecti ve Load , Plate -to-Pl ate - 9200 15800 33 700 55500 ohms
Effecti ve Load , Plate -to-Pl ate [2]	15800	Effecti ve Load , Plate -to-Pl ate - 9200 15800 33 700 55500 ohms
Effecti ve Load , Plate -to-Pl ate [3]	33	Effecti ve Load , Plate -to-Pl ate - 9200 15800 33 700 55500 ohms
Effecti ve Load , Plate -to-Pl ate [4]	700	Effecti ve Load , Plate -to-Pl ate - 9200 15800 33 700 55500 ohms
Effecti ve Load , Plate -to-Pl ate [5]	55500	Effecti ve Load , Plate -to-Pl ate - 9200 15800 33 700 55500 ohms
Max. -Sig na l Plate Power Output [1]	50 W	Max. -Sig na l Plate Power Output 50 70 90 11 0 watts
Max. -Sig na l Plate Power Output [2]	70 W	Max. -Sig na l Plate Power Output 50 70 90 11 0 watts
Max. -Sig na l Plate Power Output [3]	90 W	Max. -Sig na l Plate Power Output 50 70 90 11 0 watts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Max. -Sig na l Plate Power Output [4]	11 W	Max. -Sig na l Plate Power Output 50 70 90 11 0 watts
Max. -Sig na l Plate Power Output [5]	0 W	Max. -Sig na l Plate Power Output 50 70 90 11 0 watts
D-C Plate Vo ltage [1]	1000	D-C Plate Vo ltage 1000 1500 2000 2000 volts
D-C Plate Vo ltage [2]	1500	D-C Plate Vo ltage 1000 1500 2000 2000 volts
D-C Plate Vo ltage [3]	2000	D-C Plate Vo ltage 1000 1500 2000 2000 volts
D-C Plate Vo ltage [4]	2000	D-C Plate Vo ltage 1000 1500 2000 2000 volts
D-C Plate Current [1]	72 mA	D-C Plate Current 72 67 63 75 ma o
D-C Plate Current [2]	67 mA	D-C Plate Current 72 67 63 75 ma o
D-C Plate Current [3]	63 mA	D-C Plate Current 72 67 63 75 ma o
D-C Plate Current [4]	75 mA	D-C Plate Current 72 67 63 75 ma o
D-C Grid Cu rrent [1]	9	D-C Grid Cu rrent 9 13 18 25 mao
D-C Grid Cu rrent [2]	13	D-C Grid Cu rrent 9 13 18 25 mao
D-C Grid Cu rrent [3]	18	D-C Grid Cu rrent 9 13 18 25 mao
D-C Grid Cu rrent [4]	25	D-C Grid Cu rrent 9 13 18 25 mao



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1962 Eimac

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

1962 EIMAC

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency for Maximum Ratings	—	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Current	75 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	1.5 pF	—
Grid-Filament Capacitance	2.7 pF	—
Plate-Filament Capacitance	0.3 pF	—



SOURCE OPERATING CONDITIONS

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1965 Eimac Tube Manual

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

1965 EIMAC TUBE MANUAL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The Eimac [1]	25 W	The Eimac 25T is a medium-mu, power triod@ having a maximum plate dissipation of 25 wet+a
The Eimac [2]	25 W	The Eimac 25T is a medium-mu, power triod@ having a maximum plate dissipation of 25 wet+a
Cooling of th	25	Cooling of th. 25T is accomplished by radiation from the plato, which op@ratos at a visible
Current	3 A	Current----- 3.0 amporos
D-C PLATE YOLT^ [1]	6	D-C PLATE YOLT^6E - - - '35 Volts
D-C PLATE YOLT^ [2]	35	D-C PLATE YOLT^6E - - - '35 Volts
MAX-S1 [1]	6 mA	MAX-S16NAL D-C PLATE CURRENT 75 MAX. MA.
MAX-S1 [2]	75 mA	MAX-S16NAL D-C PLATE CURRENT 75 MAX. MA.
PLATE DISSIPATION [1]	25 W	PLATE DISSIPATION ---- 25 MAX. WATTS ¥:ki;i:-iF;o#,,a::,n}jr;i:¥;%;;uP;O:Wup:o?we:.,,ub.a:cO85 ': !2! '12 Watts
PLATE DISSIPATION [2]	5 W	PLATE DISSIPATION ---- 25 MAX. WATTS ¥:ki;i:-iF;o#,,a::,n}jr;i:¥;%;;uP;O:Wup:o?we:.,,ub.a:cO85 ': !2! '12 Watts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PLATE DISSIPATION [3]	2 W	PLATE DISSIPATION ---- 25 MAX. WATTS
PLATE DISSIPATION [4]	12 W	PLATE DISSIPATION ---- 25 MAX. WATTS
GRID DISSIPATION	7 mA	GRID DISSIPATION ---- 7 MAX. WATTS 'Adjust to give stated zero-signal plate current.
D-C PLATE CURRENT	60	D-C PLATE CURRENT ----- 60 MAX. MA.
D-C PLATE VOLTAGE [1]	6 W	D-C PLATE VOLTAGE ---- 2000 MAX. VOLTS Grid Dissipation - -
D-C PLATE VOLTAGE [2]	2000 W	D-C PLATE VOLTAGE ---- 2000 MAX. VOLTS Grid Dissipation - -
D-C PLATE CURRENT	75 mA	D-C PLATE CURRENT ----- 75 MAX. MA.
PLATE DISSIPATION	25	PLATE DISSIPATION ---- 25 MAX. WATTS
GRID DISSIPATION	7	GRID DISSIPATION ---- 7 MAX. WATTS allow for variations in circuit losses.
power output and grid driving power [1]	70 W	power output and grid driving power 70 -75
power output and grid driving power [2]	-75 W	power output and grid driving power 70 -75
at plate voltages of [1]	10001500 V	at plate voltages of 1000,1500 and Pp E20 cO -65
at plate voltages of [2]	0 V	at plate voltages of 1000,1500 and Pp E20 cO -65
at plate voltages of [3]	-65 V	at plate voltages of 1000,1500 and Pp E20 cO -65
POWER	0 W	POWER OUTPUT AT TS POWER OUTPUT- WATTS

TUBE TINKER

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