



ELECTRONIC TUBE REFERENCE

6252

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Twin high-frequency tetrode developed from the 832A for RF amplifier, frequency-multiplier, and modulator service. Its paired tetrode structure supports balanced high-frequency power circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 650 mA	PARALLEL HEATER	6.3 V / 1.3 A
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.0025 S
AMPLIFICATION FACTOR	8.5
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	55 mA
<i>Promoted ratings/characteristics are source-published values; additional published values and operating examples are preserved in the parameter table.</i>	

Twin high-frequency tetrode, a high-frequency development of the 832A, for amplifier, multiplier, and modulator service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 Amperex

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

1953 AMPEREX

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	600 MHz	ClassC
Heater voltage series	12.6 V	Series
Heater current series	450 mA	Series
Heater voltage parallel	6.3 V	Parallel
Heater current parallel	1.3 A	Parallel
Peak cathode current per section	260 mA	PerSection



SOURCE OPERATING CONDITIONS

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heizstrom Te D	6.65 A	Heizstrom Te D 06,65 A
f 200 200 400 400	600 MHz	f 200 200 400 400 600 MHz
i 200 200	400 MHz	i 200 200 400 MHz
Ua' 500 300	300 V	Ua' 500 300 300 V
Ug2 e 250	250 V	Ug2 e 250 250 V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ug1 -80 -50 =	50 V	Ug1 -80 -50 =50 V
Ia 2x40 2x40 2x	40 mA	Ia 2x40 2x40 2x40 mA
Iéä" 2x4 05 2x	3 mA	Iéä" 2x4 05 2x3 mA
Ig1 2x1 2x1 2x	1 mA	Ig1 2x1 2x1 2x1 mA
Qa ' 2x4 ,5 229	255 W	Qa ' 2x4 ,5 229 255 W
Qg2 2x1 2x1	20715 W	Qg2 2x1 2x1 20715 W
BA 31 Wr	12 W	BA 31 Wr 12 W
N E 71	54 %	N E 71 54 %
f 66,7/200 133/	400 MHz	f 66,7/200 133/400 MHz
Ua mod maxX	500 V	Ua mod maxX 500 V
Ug1 min	75 V	Ug1 min 75 V
Steurgitterverlustistg. Qg1 max 2x0	5 W	Steurgitterverlustistg. Qg1 max 2x0;5 W
] rungen darf	1 %	] rungen darf 1%80°C nicht übersteigen.
f =	150 MHz	f = 150 MHz bei U, 600 V
f ®	200 MHz	f ® 200 MHz bei U, 500 V
f=	430 MHz	f= 430 MHz bei Ua 300 7
In der wievielten Stufe arbeitet die Röhre@?	0 mA	In der wievielten Stufe arbeitet die Röhre@?.....0000000000 A

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Schirmgitterspannung Ug2	250 A	Schirmgitterspannung Ug2 250 A'd
Anodenstrom Ia	20 mA	Anodenstrom Ia 20 mA
Steilheit S	2.5 mA	Steilheit S 2,5 mA/Y
Anodenspannung Ua R0	600 V	Anodenspannung Ua RO 600 V
Kathodenstrom ;k Ka	2555 mA	Kathodenstrom ;k Ka 2555 mA
Gitterstrom ig1 Ar	2245 mA	Gitterstrom ig1 Ar 2245 mA



1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification Factor	8.5	—
Maximum frequency	300 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	20 W	CCS
Maximum plate dissipation	25 W	ICAS
Plate voltage	600 V	CCS ClassC
Plate current	100 mA	CCS ClassC
Power output	42 W	CCS ClassC
Grid voltage	-60 V	CCS ClassC
Screen voltage	250 V	CCS ClassC
Plate voltage	750 V	ICAS ClassC
Plate current	150 mA	ICAS ClassC
Power output	79 W	ICAS ClassC



SOURCE DATA APPENDIX

1959 Telefunken

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

1959 TELEFUNKEN

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum RF amplifier frequency	600 MHz	—
Class-C operation	Published	ClassC

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	RF / AF amplifier	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	600 V	RFPowerAmplifier;CCS;EachSection
Plate current	100 mA	RFPowerAmplifier;CCS;EachSection
Power output	42 W	RFPowerAmplifier;CCS
Control-grid voltage	-60 V	RFPowerAmplifier;CCS
Grid current	1.4 mA	RFPowerAmplifier;CCS
Screen voltage	250 V	RFPowerAmplifier;CCS
Plate voltage	750 V	RFPowerAmplifier;ICAS;EachSection
Plate current	150 mA	RFPowerAmplifier;ICAS;EachSection
Power output	79 W	RFPowerAmplifier;ICAS
Grid current	2 mA	RFPowerAmplifier;ICAS
Maximum frequency at full input	300 MHz	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	4 pF	EachSection
Output capacitance	1.3 pF	EachSection

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