ELECTRONIC TUBE REFERENCE

24JZ8

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
BEAMPOWER-TRIODE

> Combination triode and beam-power tube designed for television vertical-deflection oscillator and amplifier applications, with high pulse-voltage capability.

General characteristics

BASE DESIGNATION	12OZ	**BASE PINS**	12
NOMINAL HEATER	26.2 V / 315 mA	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Dissimilar

Section ratings

SECTION1 Triode	
PLATE RESISTANCE	8500 Ω
TRANSCONDUCTANCE	0.00235 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	70 mA

Reference/equivalence-only sparse-source exception; medium-mu triode ratings/characteristics not reproduced.

SECTION2 Beam Power	
PLATE RESISTANCE	11700 Ω
TRANSCONDUCTANCE	0.0071 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	7 W
MAXIMUM SCREEN DISSIPATION	1.8 W
MAXIMUM CATHODE CURRENT	245 mA
Reference/equivalence-only sparse-source exception; beam-pentode ratings/characteristics not reproduced.	

Combined triode and beam-power tube for television vertical-deflection oscillator and amplifier applications.

SOURCE OPERATING CONDITIONS

1968 General Electric Co

SOURCE PDF

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Warm-up Time	11 s	Average

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1975 RCA RC30

SOURCE PDF

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

1975 RCA RC30

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Warm-up Time	11 s	Other;PublishedValue1
Heater Warm-up Time	11 s	Other;PublishedValue2
Heater Warm-up Time	11 s	Other;PublishedValue3
Peak value t2	0 V	Other;PublishedValue1
Peak value t2	200 V	Other;PublishedValue2
Peak value t2	200 V	Other;PublishedValue3
Peak value t2	200 V	Other;PublishedValue4
Average value	100 V	Other;PublishedValue1
Average value	100 V	Other;PublishedValue2
Average value	100 V	Other;PublishedValue3
Average value	100 V	Other;PublishedValue4

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Plate Voltage	**250 V**	MaximumRating;PublishedValue1
DC Plate Voltage	**250 V**	MaximumRating;PublishedValue2
Peak Positive-Pulse Plate Voltage* —	**2000 V**	MaximumRating
Peak Negative-Pulse Grid-No.l Voltage	**200 V**	MaximumRating
Published value	**400 V**	MaximumRating;PublishedValue1
Published value	**150 V**	MaximumRating;PublishedValue2
Average Cathode Current	**70 mA**	MaximumRating;PublishedValue1
Average Cathode Current	**245 mA**	MaximumRating;PublishedValue2
Plate Dissipation*	**20 mA**	MaximumRating;PublishedValue1
Plate Dissipation*	**70 mA**	MaximumRating;PublishedValue2
Published value	**1 W**	MaximumRating;PublishedValue1
Published value	**7 W**	MaximumRating;PublishedValue2
Grid-No	**2 W**	MaximumRating;PublishedValue1
Grid-No	**1.8 W**	MaximumRating;PublishedValue2
For fixed-bias operation	**1 megohm**	MaximumCircuitValue;PublishedValue1
For fixed-bias operation	**1 megohm**	MaximumCircuitValue;PublishedValue2
For cathode-bias operation	**2.2 megohm**	MaximumCircuitValue;PublishedValue1
For cathode-bias operation	**2.2 megohm**	MaximumCircuitValue;PublishedValue2
Maximum Plate Voltage	**250 V**	Section1;Promoted
Maximum Plate Dissipation	**1 W**	Section1;Promoted
Maximum Cathode Current	**70 mA**	Section1;Promoted

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	**150 V**	Characteristic;PublishedValue1
Plate Voltage	**45 V**	Characteristic;PublishedValue2
Plate Voltage	**120 V**	Characteristic;PublishedValue3
Grid-No	**2 V**	Characteristic;PublishedValue1
Grid-No	**110 V**	Characteristic;PublishedValue2
Grid-No	**110 V**	Characteristic;PublishedValue3
Grid-No.l (Control-Grid) Voltage	**-6 V**	Characteristic;PublishedValue1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.l (Control-Grid) Voltage	**0 V**	Characteristic;PublishedValue2
Grid-No.l (Control-Grid) Voltage	**-8 V**	Characteristic;PublishedValue3
Plate Resistance (Approx.)	**8500 ohm**	Characteristic;PublishedValue1
Plate Resistance (Approx.)	**11700 ohm**	Characteristic;PublishedValue2
Transconductance	**2350 uS**	Characteristic;PublishedValue1
Transconductance	**7100 uS**	Characteristic;PublishedValue2
Plate Current	**5.5 mA**	Characteristic;PublishedValue1
Plate Current	**122 mA**	Characteristic;PublishedValue2
Plate Current	**46 mA**	Characteristic;PublishedValue3
Grid-No.l Voltage (Approx.)	**16.5 mA**	Characteristic;PublishedValue1
Grid-No.l Voltage (Approx.)	**3.5 mA**	Characteristic;PublishedValue2
for plate current	**10 V**	Characteristic;PublishedValue1
for plate current	**-10 V**	Characteristic;PublishedValue2
Plate Resistance	**8500 ohm**	Section1;Promoted
Transconductance	**2350 uS**	Section1;Promoted
Amplification Factor	**20**	Section1;Promoted

1975 RCA RC30

Section 2 · Beam Power

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum Plate Voltage	**250 V**	Section2;Promoted
Maximum Screen Voltage	**200 V**	Section2;Promoted
Maximum Plate Dissipation	**7 W**	Section2;Promoted
Maximum Screen Dissipation	**1.8 W**	Section2;Promoted
Maximum Cathode Current	**245 mA**	Section2;Promoted

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate Resistance	**11700 ohm**	Section2;Promoted
Transconductance	**7100 uS**	Section2;Promoted

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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