

ELECTRONIC TUBE REFERENCE

14BR11

Voltage - Dual Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

PENTODE-TRIODE-TRIODE

Television Duodecar combining a video-amplifier pentode, a sync-separator triode, and a general-purpose high-mu triode for integrated picture-signal processing.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12GL	BASE PINS	12
NOMINAL HEATER	14.2 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

12GL - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	H – Heater	CONNECTED
PIN2	A	G1 – Control Grid	CONNECTED
PIN3	A	G2 – Screen Grid	CONNECTED
PIN4	A	G3 – Suppressor Grid	CONNECTED
PIN4	A	K – Cathode	CONNECTED
PIN5	B	K – Cathode	CONNECTED
PIN6	B	P – Plate (Anode)	CONNECTED
PIN7	C	K – Cathode	CONNECTED
PIN8	B	–	UNKNOWN
PIN9	C	P – Plate (Anode)	CONNECTED
PIN10	C	–	UNKNOWN
PIN11	A	P – Plate (Anode)	CONNECTED
PIN12	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	45000 Ω
TRANSCONDUCTANCE	0.0104 S
AMPLIFICATION FACTOR	68
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	4 W
MAXIMUM SCREEN DISSIPATION	1.1 W
<i>Sharp-cutoff video-amplifier pentode.</i>	

SECTION2 Triode	
PLATE RESISTANCE	9400 Ω
TRANSCONDUCTANCE	0.0044 S
AMPLIFICATION FACTOR	41
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2 W
<i>Triode Section 1.</i>	

SECTION3 Triode	
PLATE RESISTANCE	12400 Ω
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	68
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.5 W
<i>Triode Section 2.</i>	

Duodecar type used in television receiver applications. K GJT2(T The high-mu triode unit No. 1 is used for general- purpose use, the medium-mu triode unit No. 2 for sync separator service, and the pentode unit for video G2 'n2. amplifier service. Outlines section, 8C; requires duo- decar 12-contact socket.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	45000 ohm	—
Transconductance	10400 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	330 V	—
Maximum Screen Voltage	330 V	—
Maximum Plate Dissipation	4 W	—
Maximum Screen Dissipation	1.1 W	—
Plate Voltage	135 V	Pentode
Screen Voltage	135 V	Pentode
Plate Current	17 mA	Pentode
Screen Current	4 mA	Pentode

1950 SYLVANIA

Section 2 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	12400 ohm	—
Transconductance	5500 μ S	—
Amplification Factor	68	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	330 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Dissipation	1.5 W	—
Plate Voltage	200 V	Triode Section1
Plate Current	7 mA	Triode Section1

1950 SYLVANIA

Section 3 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	9400 ohm	—
Transconductance	4400 μ S	—
Amplification Factor	41	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	330 V	—
Maximum Plate Dissipation	2 W	—
Plate Voltage	200 V	Triode Section2
Plate Current	9.2 mA	Triode Section2



TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	135 V	AverageCharacteristics
Screen Voltage	135 V	AverageCharacteristics

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	17 mA	AverageCharacteristics

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Current	4 mA	AverageCharacteristics

1968 GENERAL ELECTRIC CO
Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	200 V	AverageCharacteristics

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	9.2 mA	AverageCharacteristics

1968 GENERAL ELECTRIC CO
Section 3 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	200 V	AverageCharacteristics

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	7 mA	AverageCharacteristics



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1975 RCA RC30

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

1975 RCA RC30
Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
amperes ,	11 amperes	Published value from supplied target entry

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No	330 volts	Published value from supplied target entry
Grid-No	300	Published value from supplied target entry
Plate Dissipation	5 watts	Published value from supplied target entry
Grid-No	2	Published value from supplied target entry
For grid-No	1.1 volts	Published value from supplied target entry
For grid-No	330	Published value from supplied target entry
Plate Voltage	135 volts	Published value from supplied target entry
Amplification Factor	41	Published value from supplied target entry
Plate-Resistance (Approx.)	45000 ohms	Published value from supplied target entry
Transconductance	10400	Published value from supplied target entry
Plate Current	17 mA	Published value from supplied target entry
Grid-No	4 mA	Published value from supplied target entry
Grid-No	1	Published value from supplied target entry

TUBE TINKER

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and their source documents.

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