

ELECTRONIC TUBE REFERENCE

14BL11

Voltage - Dual Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

PENTODE-TRIODE-TRIODE

Duodecar television tube with two general-purpose triodes and a sharp-cutoff pentode used specifically for video-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12GC	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

12GC - TERMINAL PINOUT

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

TERMINAL	SECTION	ELEMENT	STATUS
PIN12	—	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Pentode		
PLATE RESISTANCE		70000 Ω
TRANSCONDUCTANCE		0.019 S
AMPLIFICATION FACTOR		40
MAXIMUM PLATE VOLTAGE		250 V
MAXIMUM SCREEN VOLTAGE		125 V
MAXIMUM PLATE DISSIPATION		2.5 W
MAXIMUM SCREEN DISSIPATION		1.25 W
<i>Sharp-cutoff frame-grid pentode.</i>		

SECTION2 Triode		
PLATE RESISTANCE		12500 Ω
TRANSCONDUCTANCE		0.0055 S
AMPLIFICATION FACTOR		69
MAXIMUM PLATE VOLTAGE		330 V
MAXIMUM PLATE DISSIPATION		1.5 W
<i>High-mu triode, Section 1.</i>		

SECTION3 Triode		
PLATE RESISTANCE		7600 Ω
TRANSCONDUCTANCE		0.0053 S
AMPLIFICATION FACTOR		40
MAXIMUM PLATE VOLTAGE		330 V
MAXIMUM PLATE DISSIPATION		2 W
<i>Medium-mu triode, Section 2.</i>		

Duodecar type used in television receiver applications. k T2 The pentode unit is used for video amplifier service, and the triode units for general-purpose use. Outlines g tz section, 8B; requires duodecar 12-contact socket.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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	200 V	AverageCharacteristics
Screen Voltage	100 V	AverageCharacteristics

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	16 mA	AverageCharacteristics
Screen Current	3 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	7.1 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	7.2 mA	Average Characteristics



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
warm-up time	11 seconds	Published value from supplied target entry
amperes,	11 amperes	Published value from supplied target entry

Characteristic		
Parameter	Published Value	Condition / Note
Plate Voltage	250 volts	Published value from supplied target entry
Grid-No	125 volts	Published value from supplied target entry
Plate Dissipation	2.5 watts	Published value from supplied target entry
Grid-No	1.25 watts	Published value from supplied target entry
Plate Voltage	200 volts	Published value from supplied target entry
Grid-No	100 volts	Published value from supplied target entry
Grid-No.1 Voltage	0 volts	Published value from supplied target entry
Amplification Factor	69	Published value from supplied target entry
Plate Resistance (Approx.)	70000 ohms	Published value from supplied target entry
Transconductance	19000	Published value from supplied target entry
Plate Current	16 mA	Published value from supplied target entry
Grid-No	3 mA	Published value from supplied target entry

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