

ELECTRONIC TUBE REFERENCE

16LU8A

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA  
2 SECTIONS  
CONSTRUCTION  
BEAMPOWER-TRIODE

Compactron high-mu triode and beam-power tube for television vertical-deflection oscillator and amplifier service, with a 14-watt beam section and high pulse-voltage capability.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 12DZ              | BASE PINS            | 12            |
| NOMINAL HEATER      | 16 V / 600 mA     | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Dissimilar    |

12DZ - TERMINAL PINOUT

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

SECTION RATINGS

| SECTION1 Triode                                                                                                        |                |
|------------------------------------------------------------------------------------------------------------------------|----------------|
| PLATE RESISTANCE                                                                                                       | 16000 $\Omega$ |
| TRANSCONDUCTANCE                                                                                                       | 0.0036 S       |
| AMPLIFICATION FACTOR                                                                                                   | 58             |
| MAXIMUM PLATE VOLTAGE                                                                                                  | 400 V          |
| MAXIMUM PLATE DISSIPATION                                                                                              | 2.5 W          |
| MAXIMUM CATHODE CURRENT                                                                                                | 30 mA          |
| <i>Heater-variant reference sheet; electrical data explicitly cross-referenced to 6LU8; shorter bulb length noted.</i> |                |

| SECTION2 Beam Power                                                                                                    |                |
|------------------------------------------------------------------------------------------------------------------------|----------------|
| PLATE RESISTANCE                                                                                                       | 12000 $\Omega$ |
| TRANSCONDUCTANCE                                                                                                       | 0.0093 S       |
| MAXIMUM PLATE VOLTAGE                                                                                                  | 400 V          |
| MAXIMUM SCREEN VOLTAGE                                                                                                 | 300 V          |
| MAXIMUM PLATE DISSIPATION                                                                                              | 14 W           |
| MAXIMUM SCREEN DISSIPATION                                                                                             | 2.75 W         |
| MAXIMUM CATHODE CURRENT                                                                                                | 75 mA          |
| <i>Heater-variant reference sheet; electrical data explicitly cross-referenced to 6LU8; shorter bulb length noted.</i> |                |

High-mu triode and beam-power tube for combined vertical-deflection oscillator and amplifier service.



## 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 · Triode

| OTHER                          |                 |                  |
|--------------------------------|-----------------|------------------|
| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE |
| HeaterOrFilamentVoltageNominal | 16 V            | —                |
| HeaterOrFilamentCurrentNominal | 600 mA          | —                |



## 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 1 · Triode

| CHARACTERISTIC    |                 |                  |
|-------------------|-----------------|------------------|
| PARAMETER         | PUBLISHED VALUE | CONDITION / NOTE |
| Plate voltage     | 250 V           | ClassA           |
| Grid No.1 voltage | -4 V            | ClassA           |
| Plate current     | 2.3 mA          | ClassA           |

| OTHER                   |                 |                    |
|-------------------------|-----------------|--------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE   |
| Plate voltage maximum   | 400 V           | VerticalDeflection |
| Plate dissipation       | 2.5 W           | VerticalDeflection |
| Average cathode current | 30 mA           | VerticalDeflection |
| Peak cathode current    | 105 mA          | VerticalDeflection |

## Section 2 · Beam Power

| CHARACTERISTIC      |                 |                   |
|---------------------|-----------------|-------------------|
| PARAMETER           | PUBLISHED VALUE | CONDITION / NOTE  |
| Plate voltage       | 135 V           | PentodeConnection |
| Screen-grid voltage | 120 V           | PentodeConnection |
| Grid No.1 voltage   | -10 V           | PentodeConnection |
| Plate current       | 56 mA           | PentodeConnection |

| OTHER                             |                 |                    |
|-----------------------------------|-----------------|--------------------|
| PARAMETER                         | PUBLISHED VALUE | CONDITION / NOTE   |
| Peak positive-pulse plate voltage | 2500 V          | VerticalDeflection |
| Plate dissipation                 | 14 W            | VerticalDeflection |
| Screen-grid input                 | 2.75 W          | VerticalDeflection |
| Average cathode current           | 75 mA           | VerticalDeflection |
| Peak cathode current              | 260 mA          | VerticalDeflection |

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