



## ELECTRONIC TUBE REFERENCE

## 32HQ7

Rectifier - Damper Diode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

BEAMPOWER-DIODE

Compactron combining a high-perveance damper diode with a beam-power horizontal-deflection section, integrating sweep output and energy recovery in one television tube.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 12HT              | BASE PINS            | 12            |
| NOMINAL HEATER      | 32.6 V / 315 mA   | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Dissimilar    |

## SECTION RATINGS

|                                                                                    |               |
|------------------------------------------------------------------------------------|---------------|
| SECTION1 Beam Power                                                                |               |
| PLATE RESISTANCE                                                                   | 8400 $\Omega$ |
| TRANSCONDUCTANCE                                                                   | 0.0045 S      |
| MAXIMUM PLATE VOLTAGE                                                              | 400 V         |
| MAXIMUM SCREEN VOLTAGE                                                             | 150 V         |
| MAXIMUM PLATE DISSIPATION                                                          | 7 W           |
| MAXIMUM SCREEN DISSIPATION                                                         | 3 W           |
| MAXIMUM CATHODE CURRENT                                                            | 125 mA        |
| Promoted values are taken from clearly identified printed ratings/characteristics. |               |

|                                                                                           |        |
|-------------------------------------------------------------------------------------------|--------|
| <b>SECTION2</b> Diode                                                                     |        |
| <b>MAXIMUM PLATE DISSIPATION</b>                                                          | 3.8 W  |
| <b>PEAK INVERSE VOLTAGE</b>                                                               | 3300 V |
| <b>NOMINAL OUTPUT CURRENT</b>                                                             | 120 mA |
| <b>PEAK FORWARD CURRENT</b>                                                               | 600 mA |
| <i>Promoted values are taken from clearly identified printed ratings/characteristics.</i> |        |

Compactron combining a high-perveance damper diode and beam-power pentode for television damper and horizontal-deflection 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 · Beam Power

| OTHER                             |                 |                      |
|-----------------------------------|-----------------|----------------------|
| PARAMETER                         | PUBLISHED VALUE | CONDITION / NOTE     |
| HeaterOrFilamentVoltageNominal    | 32.6 V          | —                    |
| HeaterOrFilamentCurrentNominal    | 315 mA          | —                    |
| MaxPlateVoltage                   | 400 V           | —                    |
| MaxScreenVoltage                  | 150 V           | —                    |
| MaxPlateDissipation               | 7 W             | —                    |
| MaxScreenDissipation              | 3 W             | —                    |
| MaxCathodeCurrent                 | 125 mA          | —                    |
| Peak Positive Pulse Plate Voltage | 4000 V          | HorizontalDeflection |
| Peak Cathode Current              | 440 mA          | HorizontalDeflection |
| Typical Plate Voltage             | 110 V           | —                    |
| Typical Screen Voltage            | 110 V           | —                    |

| CHARACTERISTIC   |                 |                  |
|------------------|-----------------|------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE |
| Plate Resistance | 8400 Ohm        | —                |
| Transconductance | 4500 uS         | —                |

| CAPACITANCE                |                 |                  |
|----------------------------|-----------------|------------------|
| PARAMETER                  | PUBLISHED VALUE | CONDITION / NOTE |
| Grid1 To Plate Capacitance | 0.3 pF          | —                |
| Input Capacitance          | 14 pF           | —                |
| Output Capacitance         | 6.9 pF          | —                |

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## Section 2 · Diode

| OTHER                              |                 |                  |
|------------------------------------|-----------------|------------------|
| PARAMETER                          | PUBLISHED VALUE | CONDITION / NOTE |
| HeaterOrFilamentVoltageNominal     | 32.6 V          | —                |
| HeaterOrFilamentCurrentNominal     | 315 mA          | —                |
| MaxPlateDissipation                | 3.8 W           | —                |
| RectifierMaximumPeakInverseVoltage | 3300 V          | —                |
| RectifierNominalOutputCurrent      | 120 mA          | —                |
| RectifierPeakForwardCurrent        | 600 mA          | —                |

| CAPACITANCE                             |                 |                  |
|-----------------------------------------|-----------------|------------------|
| PARAMETER                               | PUBLISHED VALUE | CONDITION / NOTE |
| Cathode To Plate And Heater Capacitance | 8.2 pF          | —                |
| Plate To Cathode And Heater Capacitance | 6.1 pF          | —                |
| Heater To Cathode Capacitance           | 25 pF           | —                |

| CHARACTERISTIC           |                 |                  |
|--------------------------|-----------------|------------------|
| PARAMETER                | PUBLISHED VALUE | CONDITION / NOTE |
| TubeVoltageDropAt200mADC | 16 V            | —                |