

ELECTRONIC TUBE REFERENCE

9QP4A

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA  
1 SECTION  
CONSTRUCTION  
CATHODERAY

Nine-inch lightweight television picture tube designed for small portable receivers, with a low-current heater suitable for series-string operation. General Electric documentation emphasizes compact size and reduced receiver power requirements.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 12AD              | BASE PINS            | 12            |
| NOMINAL HEATER      | 9.4 V / 300 mA    | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

12AD - TERMINAL PINOUT

| TERMINAL | SECTION | ELEMENT           | STATUS    |
|----------|---------|-------------------|-----------|
| PIN1     | –       | –                 | IC        |
| PIN2     | –       | P – Plate (Anode) | CONNECTED |
| PIN3     | –       | –                 | IC        |
| PIN4     | –       | G1 – Control Grid | CONNECTED |
| PIN5     | –       | –                 | IC        |
| PIN6     | –       | –                 | IC        |
| PIN7     | –       | –                 | IC        |
| PIN8     | –       | K – Cathode       | CONNECTED |
| PIN9     | –       | –                 | IC        |
| PIN10    | –       | H – Heater        | CONNECTED |
| PIN12    | –       | H – Heater        | CONNECTED |

SECTION RATINGS

## SECTION1 Cathode Ray

*No fixed ratings recorded.*

*Television picture-tube cathode-ray section; CRT ratings preserved in parameters.*

The 9QP4A is a television picture tube designed for small size, light weight, and a low-current heater for series-string operation, particularly suitable for small portable television receivers.



## 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 · Cathode Ray

| OTHER                                                                                                   |                 |                                                                    |
|---------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------|
| PARAMETER                                                                                               | PUBLISHED VALUE | CONDITION / NOTE                                                   |
| AnodeVoltageMax                                                                                         | 6800 V          | CathodeDrive                                                       |
| Grid2VoltageMax                                                                                         | 300 V           | CathodeDrive                                                       |
| AnodeVoltageTypical                                                                                     | 5500 V          | CathodeDrive                                                       |
| Grid2VoltageTypical                                                                                     | 200 V           | CathodeDrive                                                       |
| Heater Current L I R I I R I A I I I I N I<br>SN I I TR O B BER I I B R O                               | 300 mA          | GENERAL                                                            |
| Heater warm lm Ti me 0 0 0 0 l l l l l l                                                                | 11 s            | GENERAL                                                            |
| Diagonal LI I K BN IR B A B A BT B B B IR L<br>U R BE N N N BL I B B B N N IR BB NN BN BN<br>BB NN NN 3 | 70 deg          | GENERAL                                                            |
| Horizontal 00-0tomaoloincutovln n tcnocoi--<br>u o -atoto                                               | 61 deg          | GENERAL                                                            |
| Light Transmission At Center approximatd<br>seececseseces                                               | 83 %            | GENERAL ELECTRIC<br>COMPANY                                        |
| During Warm-up Period not to exceed                                                                     | 15 s            | MECHANICAL                                                         |
| ANode VOLEAEE 77<br>aeenunssnsesnsenssncseanaeanesssasenness                                            | 5500 V          | MECHANICAL                                                         |
| F0cuSing-El(B Ctr0de Cwrent CQ QQQ -Q 15 to<br>+                                                        | 25 uA           | MECHANICAL                                                         |
| Grid-No 2 Voltage l Db l l- o - l                                                                       | 200 V           | MECHANICAL                                                         |
| Cathode to Grid-No 1 Voltage Pe-<br>vvceevveeorr-ee #+ 28 to +                                          | 52 V            | MECHANICAL                                                         |
| general the anode voltage should not be<br>less that                                                    | 3500 V          | general the anode voltage<br>should not be less that 3500<br>volts |

## TUBE TINKER

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