



# 16BGP4

## Maximum and Minimum Ratings, Design-Maximum Values:

Unless otherwise specified, voltage values  
are positive with respect to cathode

Anode Voltage . . . . . {20000 max.      volts  
                          12000 min.      volts

### Grid-No.4 Voltage:

Positive value. . . . . 1100 max.      volts

Negative value. . . . . 550 max.      volts

Grid-No.2 Voltage . . . . . {550 max.      volts  
                          200 min.      volts

### Grid-No.1 Voltage:

Negative peak value . . . . . 220 max.      volts

Negative bias value . . . . . 155 max.      volts

Positive bias value . . . . . 0 max.      volts

Positive peak value . . . . . 2 max.      volts

Heater Voltage. . . . . {6.9 max.      volts  
                          5.7 min.      volts

### Peak Heater-Cathode Voltage:

Heater negative with respect to cathode:

During equipment warm-up period  
not exceeding 15 seconds. . . . . 450 max.      volts

After equipment warm-up period. . . . . 300 max.      volts

Heater positive with respect to cathode:

Peak value. . . . . 200 max.      volts

DC component. . . . . 100 max.      volts

## Typical Operating Conditions for Cathode-Drive Service:

Unless otherwise specified, voltage values  
are positive with respect to grid No.1

Anode Voltage . . . . . 16000      volts

Grid-No.4 Voltage<sup>b</sup> . . . . . 100      volts

Grid-No.2 Voltage . . . . . 300      volts

Cathode Voltage for visual extinction  
of focused raster . . . . . 28 to 60      volts

Field Strength of required adjustable  
centering magnet. . . . . 0 to 8      gauss

## Maximum Circuit Values:

Grid-No.1-Circuit Resistance. . . . . 1.5 max.      megohms

<sup>a</sup> Includes implosion protection hardware.

<sup>b</sup> The grid-No.4 voltage required for optimum focus of any individual tube  
will have a value anywhere between -100 and +300 volts with the combined  
cathode voltage and video-signal voltage adjusted to give an anode cur-  
rent of 100 microamperes on a 9-inch by 12-inch pattern from an RCA-2F21  
monoscope, or equivalent.

For X-radiation shielding considerations, see sheet  
**X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES**  
at front of this Section

