# 8014-A

# TRANSMITTING TRIODE

**FORCED-AIR COOLED**

*Intended especially for pulsed operation*

## GENERAL DATA

**Electrical:**

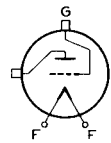
| | | |
|---|---|---|
| Filament, Thoriated Tungsten: | | |
| Voltage | 15.0 | ac volts |
| Current | 14.5 | amp |
| Starting Current: | The filament current must never exceed, even momentarily, a value of 30 amperes | |
| Peak Filament Emission | 50 (approx.) | amp |
| Amplification Factor | 30 | |
| Direct Interelectrode Capacitances (Approx.): | | |
| Grid to Plate | 4.4 | μμf |
| Grid to Filament | 4.6 | μμf |
| Plate to Filament | 3.2 | μμf |

**Mechanical:**

Terminal Connections:

F - Filament

G - Grid Cap Terminal




P - Plate Terminal (Air-Cooled Radiator)

| | |
|---|---|
| Mounting Position | Vertical only, Filament or Grid End Up |
| Overall Length | 8-17/32" ± 3/16" |
| Diameter | 1-7/8" ± 1/32" |
| Radiator | Integral Part of Tube |

Cooling: Air should be delivered in sufficient quantity to the radiator to limit the temperature of the radiator to the rated maximum value. In addition, a small amount of cooling air is required on the filament. Air-flow must start before the application of any voltages.

**Maximum Ratings,** *Absolute Values*:

| | | |
|---|---|---|
| DC PLATE VOLTAGE# | 13500 max. | volts |
| DC GRID VOLTAGE | -3000 max. | volts |
| PLATE DISSIPATION | 400 max. | watts |
| RADIATOR TEMPERATURE▲ | 180 max. | °C |

# The maximum value of filter capacitor permitted directly at the tube and its rf circuit is 1.0 μf. A series resistance of at least 15000 ohms must be used between this capacitor and the high-voltage supply.

▲ Measured outside of air blast on outer fin of radiator near plate.

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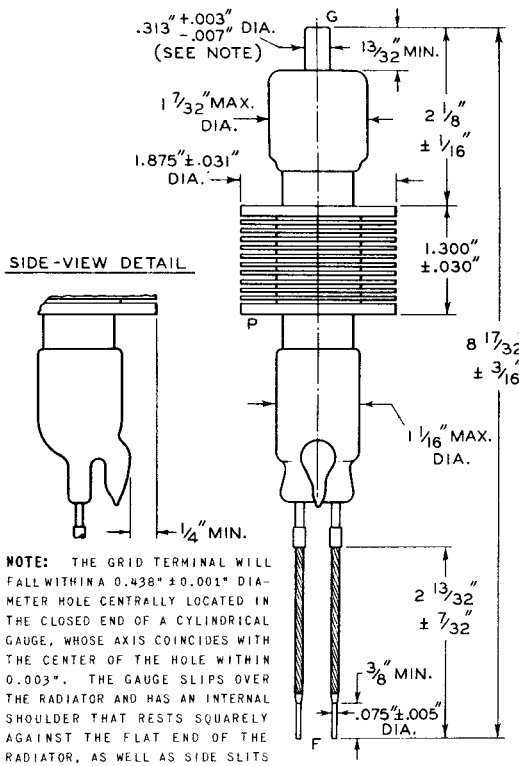


**NOTE:** THE GRID TERMINAL WILL FALL WITHIN A 0.438" ± 0.001" DIAMETER HOLE CENTRALLY LOCATED IN THE CLOSED END OF A CYLINDRICAL GAUGE, WHOSE AXIS COINCIDES WITH THE CENTER OF THE HOLE WITHIN 0.003". THE GAUGE SLIPS OVER THE RADIATOR AND HAS AN INTERNAL SHOULDER THAT RESTS SQUARELY AGAINST THE FLAT END OF THE RADIATOR, AS WELL AS SIDE SLITS EXTENDING APPROXIMATELY 1/2" ABOVE THE INTERNAL SHOULDER TO INSURE SPRING FIT OVER THE RADIATOR. THE INNER SURFACE OF THE CLOSED END OF THE GAUGE IS 1.812" + 0.010" - 0.000" FROM THE SHOULDER SURFACE WHICH RESTS AGAINST THE FLAT END OF THE RADIATOR. THE CLOSED END OF THE GAUGE IS 0.438" ± 0.010" THICK.

92CM-6363R1