



8012

**U-H-F TRANSMITTING TRIODE**

*The 8012 supersedes the Type 1628.*

|  |                               |                         |
|--|-------------------------------|-------------------------|
| Filament**                                     | Thoriated Tungsten            |                         |
| Voltage  | 6.3                           | a-c or d-c volts        |
| Current  | 1.92                          | amp.                    |
| Amplification Factor                           | 18                            |                         |
| Direct Interelectrode Capacitances:            |                               |                         |
| Grid to Plate                                  | 2.8                           | μf                      |
| Grid to Filament                               | 2.7                           | μf                      |
| Plate to Filament                              | 0.35                          | μf                      |
| Maximum Overall Length }<br>Maximum Diameter } | Refer to tube outline drawing |                         |
| Bulb   |                               | T-8                     |
| Terminal Connections                           |                               | Special                 |
| Cooling  |                               | Forced Air <sup>◊</sup> |

*Maximum Ratings Are Absolute Values*

**MAXIMUM CCS RATINGS  
with TYPICAL OPERATING CONDITIONS**

*CCS = Continuous Commercial Service*

GRID-MODULATED R-F POWER AMPLIFIER - Class C Telephony

*Carrier conditions per tube for use with a max. modulation factor of 1.0*

|                               | <u>CCS</u>  |       |
|-------------------------------|-------------|-------|
| D-C Plate Voltage             | 1000 max.   | volts |
| D-C Grid Voltage              | -200 max.   | volts |
| D-C Plate Current             | 65 max.     | ma.   |
| Plate Input                   | 50 max.     | watts |
| Plate Dissipation             | 40 max.     | watts |
| Typical Operation:            |             |       |
| D-C Plate Voltage             | 1000        | volts |
| D-C Grid Voltage <sup>□</sup> | { -135      | volts |
|                               | 2500        | ohms  |
| Peak R-F Grid Voltage         | 155         | volts |
| Peak A-F Grid Voltage         | 65          | volts |
| D-C Plate Current             | 50          | ma.   |
| D-C Grid Current*             | 4.0 approx. | ma.   |
| Driving Power <sup>▲*</sup>   | 3.5 approx. | watts |
| Power Output                  | 20 approx.  | watts |

<sup>□</sup> Obtained from fixed supply or by cathode resistor of value shown.

<sup>▲</sup> At crest of audio-frequency cycle with modulation factor of 1.0.

PLATE-MODULATED R-F POWER AMPLIFIER - Class C Telephony

*Carrier conditions per tube for use with a max. modulation factor of 1.0*

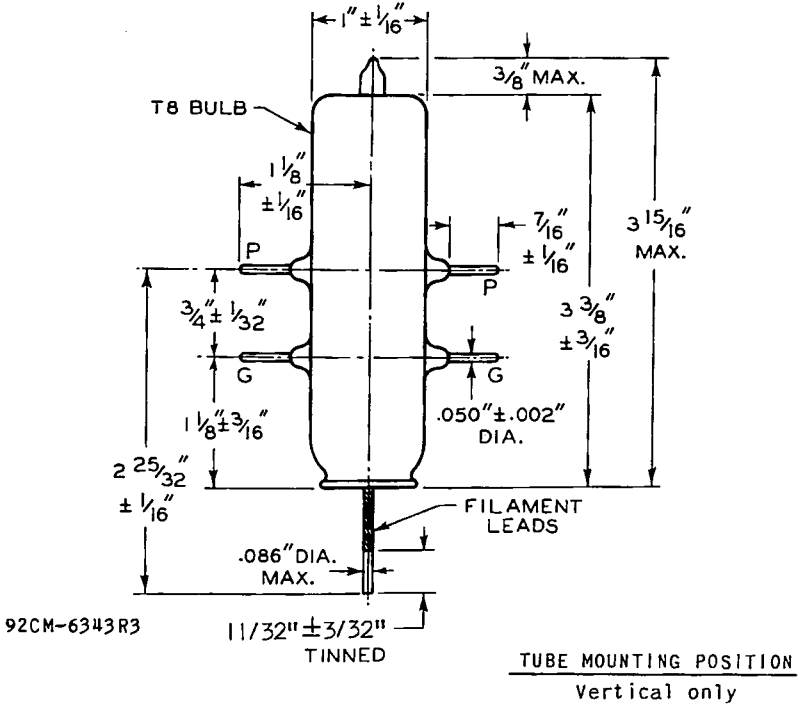
|                               | <u>CCS</u> |       |
|-------------------------------|------------|-------|
| D-C Plate Voltage             | 800 max.   | volts |
| D-C Grid Voltage              | -200 max.  | volts |
| D-C Plate Current             | 65 max.    | ma.   |
| D-C Grid Current              | 20 max.    | ma.   |
| Plate Input                   | 33 max.    | watts |
| Plate Dissipation             | 27 max.    | watts |
| Typical Operation:            |            |       |
| D-C Plate Voltage             | 800        | volts |
| D-C Grid Voltage <sup>‡</sup> | { -105     | volts |
|                               | 10000      | ohms  |

\*\* , \* , ‡ , ◊ : see next page.

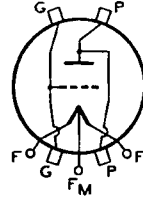


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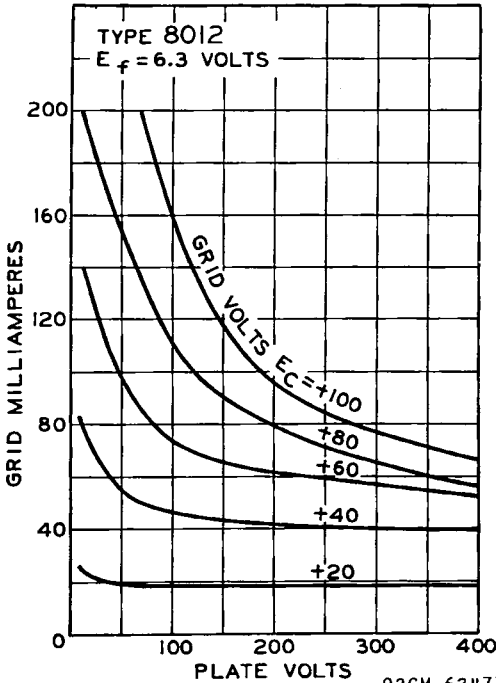
## TERMINAL CONNECTIONS



G TERMINALS NEARER FILAMENT LEADS  
P TERMINALS NEARER BULB TIP

- F - FILAMENT
- F<sub>M</sub> - FILAMENT MID-TAP
- G - GRID
- P - PLATE

## TYPICAL CHARACTERISTICS





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# AVERAGE PLATE CHARACTERISTICS

