

# 36 R. HALF-WAVE VACUUM RECTIFIER

SUBMINIATURE TYPE

For compact, portable high-voltage-rectifier applications

GENERAL DATA
Electrical:
Filament, Coated:  Voltage 1.25 ac or dc volts  Current 0.2
Mechanical:
Operating Position
Minimum length
P-Plate Terminal F-Filament Lead
PULSED-RECTIFIER SERVICE
Maximum and Minimum Ratings, Design-Center Values:  For operation in a 525-line, 30-frame system□
PEAK INVERSE PLATE VOLTAGE       10000 max. volts         PEAK PLATE CURRENT       5 max. ma         DC PLATE CURRENT       0.25 max. ma         FREQUENCY OF SUPPLY VOLTAGE       5 min. kc
Typical Operation:
Peak-Pulse Plate Voltage
Characteristics:
Plate Current for plate volts = 30 4 ma
o,□,⊕: See next page.





## 5642

### HALF-WAVE VACUUM RECTIFIER

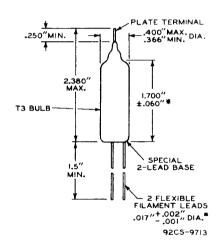
Without external shield.

As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

The duration of the voltage pulse must not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

#### OPERATING CONSIDERATIONS

The flexible leads of the 5642 are usually soldered to the circuit elements. Soldering of the connections should be made as far as possible from the glass button and the glass tip. If this precaution is not followed, the heat of the soldering operation will crack the glass seals of the leads and damage the tube.



<sup>\*</sup> Measured from base seat to bulb-top line as determined by a ring gauge of 0.210" ± 0.001" inside diameter.

The specified lead diameter applies only in the zone between 0.050° and 0.250° from the base seat. Between 0.250° and 1.500°, a maximum diameter of 0.021° is held. Outside of these zones, the lead diameter is not controlled.