



10-Y

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POWER AMPLIFIER TRIODEGENERAL DATA**Electrical:**

Filament, Thoriated Tungsten:

Voltage. 7.5 ac or dc volts

Current. 1.25 amp

Amplification Factor 8

Direct Interelectrode Capacitances (Approx.):

Grid to Plate. 7 μf Grid to Filament 4 μf Plate to Filament. 3 μf **Mechanical:**

Mounting Position. Vertical, base down

Maximum Overall Length 5-3/8"

Maximum Sealed Length. 4-3/4"

Maximum Diameter 2-1/16"

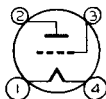
Bulb ST-16

Base Medium-Shell Small 4-Pin Micanol, Bayonet

Basing Designation for BOTTOM VIEW 4D

Pin 1-Filament

Pin 2-Plate



Pin 3-Grid

Pin 4-Filament

PLATE-MODULATED RF POWER AMPLIFIER - Class C Telephony*Carrier conditions per tube for use with a max. modulation factor of 1.0***Maximum Ratings, Absolute Values:**

DC PLATE VOLTAGE 350 max. volts

DC GRID VOLTAGE. -200 max. volts

DC PLATE CURRENT 60 max. ma.

DC GRID CURRENT. 15 max. ma.

PLATE INPUT. 17.5 max. watts

PLATE DISSIPATION. 10 max. watts

Typical Operation:

DC Plate Voltage 250 350 . . volts

DC Grid Voltage. -95 -135 . . volts

Peak RF Grid Voltage 195 235 . . volts

DC Plate Current 45 45 . . ma.

DC Grid Current (Approx.)[□] 15 15 . . ma.Driving Power (Approx.)[□] 3 3.5 . . watts

Power Output (Approx.) 5.5 8 . . watts

[□] Subject to wide variations as explained on sheet TUBE RATINGS in General Section.

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POWER AMPLIFIER TRIODE

RF POWER AMPLIFIER & OSCILLATOR - Class C Telegraphy

Key-down conditions per tube without modulation^{□□}

Maximum Ratings, Absolute Values:

DC PLATE VOLTAGE	450 max.	volts
DC GRID VOLTAGE	-200 max.	volts
DC PLATE CURRENT	60 max.	ma.
DC GRID CURRENT	15 max.	ma.
PLATE INPUT	27 max.	watts
PLATE DISSIPATION	15 max.	watts

Typical Operation:

DC Plate Voltage	350	450	..	volts
DC Grid Voltage	-90	-115	..	volts
Peak RF Grid Voltage	190	215	..	volts
DC Plate Current	55	55	..	ma.
DC Grid Current (Approx.) [□]	15	15	..	ma.
Driving Power (Approx.) [□]	3	3.3	..	watts
Power Output (Approx.)	9	13	..	watts

[□] Subject to wide variations as explained on sheet TUBE RATINGS in General Section.

^{□□} Modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115% of the carrier conditions.

Data on operating frequencies for the 10-Y are given on the sheet TRANS. TUBE RATINGS vs FREQUENCY