



10-Y

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POWER AMPLIFIER TRIODE

GENERAL 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 $\mu\mu\text{f}$

Grid to Filament 4 $\mu\mu\text{f}$

Plate to Filament 3 $\mu\mu\text{f}$

Mechanical:

Mounting Position Vertical, base down

Maximum Overall Length 5-3/8"

Maximum Seated Length 4-3/4"

Maximum Diameter 2-1/16"

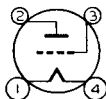
Bulb ST-16

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