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TWIN BEAM POWER TUBE

Useful at frequencies up to 470 Mc

Unless Otherwise Specified, Values are on a Per-Tube Basis

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

| | | | |
|-------------------|-----------|-----------|----------------|
| Voltage | 6.3 ± 10% | | ac or dc volts |
| Current | 1.25 | | amp |

| | | | |
|--|------|-----------|-------|
| Transconductance [▲] for dc plate volts = 200, dc grid-no.2 volts = 200, and dc plate ma. = 50 | 4500 | | μmhos |
|--|------|-----------|-------|

| | | | |
|--|-----|-----------|--|
| Mu-Factor, Grid No.2 to Grid No.1 [▲] for dc plate volts = 200, dc grid-no.2 volts = 200, and dc plate ma. = 50 | 8.5 | | |
|--|-----|-----------|--|

Direct Interelectrode Capacitances:^{▲*}

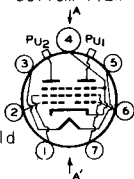
| | | | |
|--|-----------|-----------|-----|
| Grid No.1 to plate | 0.11 max. | | μuf |
| Grid No.1 to cathode & grid No.3 & internal shield, grid No.2 (pins 1 & 7), and heater | 7 | | μuf |
| Plate to cathode & grid No.3 & in- ternal shield, grid No.2 (pins 1 & 7), and heater | 3.4 | | μuf |

Mechanical:

| | | | |
|------------------------------------|---|-----------|--|
| Mounting Position | Any | | |
| Maximum Overall } Length | 3-9/16" | | |
| Seated Length | 3" ± 1/8" | | |
| Maximum Diameter | 1-11/16" | | |
| Bulb | See Dimensional Outline | | |
| Bulb Terminals (Two) | See Dimensional Outline | | |
| Weight (Approx.) | 3 oz | | |
| Base | Medium-Button Septar 7-Pin (JETEC No.E7-20) | | |

BOTTOM VIEW

Pin 1 - Grid No.2
 Pin 2 - Grid No.1 of
 Unit No.2
 Pin 3 - Heater
 Pin 4 - Cathode,
 Grid No.3,
 Internal Shield
 Pin 5 - Heater



Pin 6 - Grid No.1 of
 Unit No.1
 Pin 7 - Grid No.2
 PU1 - Plate of
 Unit No.1
 PU2 - Plate of
 Unit No.2

PLANE OF ELECTRODES OF EACH UNIT IS PARALLEL TO PLANE THROUGH AXIS OF TUBE AND AA'

Bulb Temperature (At hottest point) 210 max. °C

Cooling: Free circulation of air around the tube is required. In addition, some forced-air cooling will generally be required to prevent exceeding the specified maximum bulb temperature.

▲ Each unit.

* With no external shield.

← Indicates a change.

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TWIN BEAM POWER TUBE

AF POWER AMPLIFIER & MODULATOR — Class AB₂[†]

| | CCS ^o | ICAS ^{oo} | |
|---|------------------|--------------------|-------|
| Maximum Ratings, Absolute Values: | | | |
| DC PLATE VOLTAGE | 500 max. | 600 max. | volts |
| DC GRID-No.2 (SCREEN) VOLTAGE | 300 max. | 300 max. | volts |
| DC GRID-No.2 SUPPLY VOLTAGE | 400 max. | 400 max. | volts |
| MAX.—SIGNAL DC PLATE CURRENT** | 150 max. | 150 max. | ma |
| MAX.—SIGNAL PLATE INPUT** | 70 max. | 85 max. | watts |
| MAX.—SIGNAL GRID-No.2 INPUT** | 3 max. | 3 max. | watts |
| PLATE DISSIPATION** | 20 max. | 25 max. | watts |
| PEAK HEATER-CATHODE VOLTAGE: | | | |
| Heater negative with respect to cathode | 135 max. | 135 max. | volts |
| Heater positive with respect to cathode | 135 max. | 135 max. | volts |
| Typical CCS Operation: | | | |
| DC Plate Voltage | 400 | 500 | volts |
| DC Grid-No.2 Voltage ^{▲▲} | 200 | 200 | volts |
| DC Grid-No.1 (Control-Grid) Voltage: | | | |
| From fixed-bias source | -23 | -26 | volts |
| Peak AF Grid-No.1-to-Grid-No.1 Voltage | 72 | 70 | volts |
| DC Plate Current: | | | |
| Zero-signal value | 25 | 20 | ma |
| Max.—signal value | 145 | 116 | ma |
| DC Grid-No.2 Current: | | | |
| Zero-signal value | 0.1 | 0.1 | ma |
| Max.—signal value | 10 | 10 | ma |
| DC Grid-No.1 Current: | | | |
| Max.—signal value | 2.4 | 2.6 | ma |
| Effective Load Resistance | | | |
| (Plate to plate) | 7100 | 11100 | ohms |
| Max.—Signal Driving Power | | | |
| (Approx.) [◆] | 0.1 | 0.1 | watt |
| Max.—Signal Power Output | | | |
| (Approx.) | 39 | 40 | watts |
| Typical ICAS Operation: | | | |
| DC Plate Voltage | 500 | 600 | volts |
| DC Grid-No.2 Voltage ^{▲▲} | 200 | 200 | volts |
| DC Grid-No.1 (Control-Grid) Voltage: | | | |
| From fixed-bias source | -25 | -26 | volts |

† Subscript 2 indicates that grid-no.1 current flows during some part of the input cycle.

** Averaged over any audio-frequency cycle of sine-wave form.

^o, ^{oo}, ^{▲▲}, [◆]: See next page.



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Typical ICAS Operation (Cont'd):

| | | | |
|----------------------------------|------|-------|-------|
| Peak AF Grid-No.1-to-Grid- | | | |
| No.1 Voltage | 76 | 76 | volts |
| DC Plate Current: | | | |
| Zero-signal value | 25 | 21 | ma |
| Max.-Signal value | 145 | 135 | ma |
| DC Grid-No.2 Current: | | | |
| Zero-signal value | 0.1 | 0.1 | ma |
| Max.-signal value | 10 | 13 | ma |
| DC Grid-No.1 Current: | | | |
| Max.-signal value | 2.9 | 3.3 | ma |
| Effective Load Resistance | | | |
| (Plate to plate) | 8900 | 11400 | ohms |
| Max.-Signal Driving Power | | | |
| (Approx.) [♦] | 0.1 | 0.1 | watt |
| Max.-Signal Power Output | | | |
| (Approx.) | 50 | 57 | watts |

Maximum Circuit Values (CCS or ICAS):

| | | | |
|--|-------|------|-----------------|
| Grid-No.1-Circuit Resistance: [♦] | | | |
| With fixed bias | 30000 | max. | ohms |
| With cathode bias | | | Not recommended |

PLATE-MODULATED PUSH-PULL RF POWER AMP. — Class C Telephony

Carrier conditions per tube for use with a max. modulation factor of 1.0
 CCS^o ICAS^{oo}

Maximum Ratings, Absolute Values:

For max. plate voltage and max. plate input above 100 Mc,
 see Rating Chart I

| | | | |
|---|-----------|-----------|-------|
| DC PLATE VOLTAGE | 400 max. | 500 max. | volts |
| DC GRID-No.2 (SCREEN) VOLTAGE | 300 max. | 300 max. | volts |
| DC GRID-No.2 SUPPLY VOLTAGE | 400 max. | 400 max. | volts |
| DC GRID-No.1 (CONTROL-GRID) VOLTAGE | -200 max. | -200 max. | volts |
| DC PLATE CURRENT | 125 max. | 125 max. | ma |
| DC GRID-No.1 CURRENT | 4 max. | 4 max. | ma |
| PLATE INPUT | 45 max. | 55 max. | watts |
| GRID-No.2 INPUT | 2 max. | 2 max. | watts |
| PLATE DISSIPATION | 13.5 max. | 16.7 max. | watts |

PEAK HEATER-CATHODE VOLTAGE:

| | | | |
|---|----------|----------|-------|
| Heater negative with respect to cathode | 135 max. | 135 max. | volts |
| Heater positive with respect to cathode | 135 max. | 135 max. | volts |

^{aa} preferably obtained from a separate source or from the plate-voltage supply with a voltage divider.

[♦] Driver stage should be capable of supplying the specified driving power at low distortion to the No.1 grids of the AB₂ stage. To minimize distortion, the effective resistance per grid-No.1 circuit of the AB₂ stage should be held at a low value. For this purpose, the use of transformer coupling is recommended. In no case, however, should the total dc grid-No.1-circuit resistance exceed 30000 ohms.

^{o, oo}: See next page.



TWIN BEAM POWER TUBE

| | CCS ^o | ICAS ^{oo} | |
|--|------------------|--------------------|-------|
| Typical Operation up to 100 Mc: | | | |
| DC Plate Voltage | 400 | 500 | volts |
| DC Grid-No.2 Voltage (Approx.) [↓] | 200 | 200 | volts |
| <i>From an adjustable series resistor having max. value of</i> | | | |
| DC Grid-No.1 Voltage [*] | 45000 | 45000 [†] | ohms |
| <i>From combination employing grid resistor of</i> | | | |
| | 6200 | 6200 | ohms |
| <i>with fixed bias of</i> | | | |
| | -45 | -45 | volts |
| DC Plate Current | 100 | 100 | ma |
| DC Grid-No.2 Current (Approx.) | 7 | 7 | ma |
| DC Grid-No.1 Current (Approx.) | 2.5 | 2.5 | ma |
| Driving Power (Approx.) | 0.2 | 0.2 | watt |
| Power Output (Approx.) [*] | 31 | 40 | watts |

Typical Operation at 462 Mc:

| | | | |
|--|-------|-------|-------|
| DC Plate Voltage | 300 | 300 | volts |
| DC Grid-No.2 Voltage (Approx.) [↓] | 200 | 240 | volts |
| <i>From an adjustable series resistor having max. value of</i> | | | |
| DC Grid-No.1 Voltage [*] | 45000 | 25000 | ohms |
| <i>From combination employing grid resistor of</i> | | | |
| | 15000 | 15000 | ohms |
| <i>with fixed bias of</i> | | | |
| | -45 | -45 | volts |
| DC Plate Current | 75 | 95 | ma |
| DC Grid-No.2 Current (Approx.) | 4 | 5.5 | ma |
| DC Grid-No.1 Current (Approx.) | 1 | 1 | ma |
| Driver Power Output (Approx.) | 7 | 7 | watts |
| Useful Power Output (Approx.) ^{••} | 9 | 12 | watts |

Maximum Circuit Values:

| | | | |
|---|------------|------------|------|
| Grid-No.1-Circuit Resistance [‡] | 30000 max. | 30000 max. | ohms |
|---|------------|------------|------|

PUSH-PULL RF POWER AMP. & OSCILLATOR--Class C Telegraphy[□]
and

PUSH-PULL RF POWER AMPLIFIER--Class C FM Telephony

Maximum Ratings, Absolute Values:

For max. plate voltage and max. plate input above 100 Mc,
see Rating Chart II

| | CCS ^o | ICAS ^{oo} | |
|--------------------------------|------------------|--------------------|-------|
| DC PLATE VOLTAGE | 500 max. | 600 max. | volts |
| DC GRID-No.2 (SCREEN) VOLTAGE. | 300 max. | 300 max. | volts |

[↓] obtained preferably from a separate source modulated along with the plate supply, or from the modulated plate supply through a series resistor. It is recommended that this resistor be adjustable to permit obtaining the desired operating plate current after initial tuning adjustments are completed.

^{*} obtained from a combination of grid-No.1 resistor with either fixed supply or cathode resistor. The combination of grid-No.1 resistor and fixed supply has the advantage of not only protecting the tube from damage through loss of excitation but also of minimizing distortion by bias-supply compensation.

^o, ^{oo}, [†], [‡], [□]: See next page.



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| | CCS ^o | ICAS ^o | |
|---|--------------------|--------------------|-------|
| DC GRID-No.2 SUPPLY VOLTAGE . . . | 400 max. | 400 max. | volts |
| DC GRID-No.1 (CONTROL-GRID) | | | |
| VOLTAGE | -200 max. | -200 max. | volts |
| DC PLATE CURRENT | 150 max. | 150 max. | ma |
| DC GRID-No.1 CURRENT | 4 max. | 4 max. | ma |
| PLATE INPUT | 70 max. | 85 max. | watts |
| GRID-No.2 INPUT | 3 max. | 3 max. | watts |
| PLATE DISSIPATION | 20 max. | 25 max. | watts |
| PEAK HEATER-CATHODE VOLTAGE: | | | |
| Heater negative with respect to cathode | 135 max. | 135 max. | volts |
| Heater positive with respect to cathode | 135 max. | 135 max. | volts |
| Typical Operation up to 100 Mc: | | | |
| DC Plate Voltage | 500 | 600 | volts |
| DC Grid-No.2 Voltage (Approx.) ^o . | 200 | 200 | volts |
| <i>From an adjustable series resistor having max. value of . . .</i> | | | |
| DC Grid-No.1 Voltage [■] | 40000 [■] | 40000 [■] | ohms |
| <i>From grid resistor of . . .</i> | | | |
| DC Grid-No.1 Voltage [■] | -44 | -44 | volts |
| <i>From cathode resistor of . . .</i> | | | |
| DC Plate Current | 12000 | 12000 | ohms |
| DC Grid-No.2 Current (Approx.) . | 330 | 330 | ohms |
| DC Grid-No.1 Current (Approx.) . | 120 | 120 | ma |
| Driving Power (Approx.) | 8 | 8 | ma |
| Power Output (Approx.) ^o | 3.7 | 3.7 | ma |
| Power Output (Approx.) ^o | 0.2 | 0.2 | watt |
| Power Output (Approx.) ^o | 46 | 56 | watts |
| Typical Operation as Amplifier at 462 Mc:^o | | | |
| DC Plate Voltage | 300 | 300 | volts |
| DC Grid-No.2 Voltage (Approx.) ^o . | 200 | 250 | volts |
| <i>From an adjustable series resistor having max. value of . . .</i> | | | |
| DC Grid-No.1 Voltage [■] | 60000 | 20000 | ohms |
| <i>From grid resistor of . . .</i> | | | |
| DC Grid-No.1 Voltage [■] | -31 | -38 | volts |
| <i>From cathode resistor of . . .</i> | | | |
| DC Plate Current | 12000 | 12000 | ohms |
| DC Grid-No.2 Current (Approx.) . | 240 | 240 | ohms |
| DC Grid-No.1 Current (Approx.) . | 120 | 150 | ma |
| DC Grid-No.2 Current (Approx.) . | 3 | 6 | ma |
| DC Grid-No.1 Current (Approx.) . | 2.6 | 3.2 | ma |
| ^o At 100 Mc, useful power output measured at load of output circuit is approximately 29 watts CCS and 36 watts ICAS. [□] Key-down conditions per tube without amplitude modulation. Amplitude modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115% of the carrier conditions. [■] Connected to a 400-volt tap on suitable voltage divider across the plate-supply voltage. ^o At 100 Mc, useful power output measured at load of output circuit is approximately 43 watts CCS and 52 watts ICAS. ^o Typical operation as an oscillator at 462 Mc is the same as that shown for amplifier service except that the useful power output measured at load of output circuit is approximately 9 watts CCS and 13 watts ICAS. | | | |
| o, oo, †, ●, •, ■: See next page. | | | |



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TWIN BEAM POWER TUBE

| | CCS ^o | ICAS ^{oo} | |
|---|------------------|--------------------|-------|
| Driver Power Output (Approx.) | 7 | 7 | watts |
| Useful Power Output (Approx.) ^{oo} | 16 | 20 | watts |

Maximum Circuit Values:

| | | | |
|---|-------|------------|------|
| Grid-No.1-Circuit Resistance [†] | 30000 | 30000 max. | ohms |
|---|-------|------------|------|

FREQUENCY TRIPLER — Class C

| | CCS ^o | ICAS ^{oo} | |
|--|------------------|--------------------|--|
| Maximum Ratings, Absolute Values: | | | |

For max. plate voltage and max. plate input above 100 Mc,
see Rating Chart III

| | | | |
|--|-----------|-----------|-------|
| DC PLATE VOLTAGE | 400 max. | 400 max. | volts |
| DC GRID-No.2 (SCREEN) VOLTAGE | 300 max. | 300 max. | volts |
| DC GRID-No.2 SUPPLY VOLTAGE | 400 max. | 400 max. | volts |
| DC GRID-No.1 (CONTROL-GRID) VOLTAGE | -200 max. | -200 max. | volts |
| DC PLATE CURRENT | 100 max. | 115 max. | ma |
| DC GRID-No.1 CURRENT | 4 max. | 4 max. | ma |
| PLATE INPUT | 36 max. | 45 max. | watts |
| GRID-No.2 INPUT | 3 max. | 3 max. | watts |
| PLATE DISSIPATION | 20 max. | 25 max. | watts |
| PEAK HEATER-CATHODE VOLTAGE: | | | |
| Heater negative with respect to cathode | 135 max. | 135 max. | volts |
| Heater positive with respect to cathode | 135 max. | 135 max. | volts |

Typical Operation as Tripler to 462 Mc:

| | | | |
|--|-------|-------|-------|
| DC Plate Voltage | 300 | 300 | volts |
| DC Grid-No.2 Voltage (Approx.) ^o | 220 | 250 | volts |
| From an adjustable series re- sistor having max. value of | 30000 | 20000 | ohms |
| DC Grid-No.1 Voltage ^o | -148 | -148 | volts |
| From grid resistor of | 51000 | 51000 | ohms |
| DC Plate Current | 90 | 110 | ma |
| DC Grid-No.2 Current (Approx.) | 5 | 6.5 | ma |
| DC Grid-No.1 Current (Approx.) | 2.9 | 2.9 | ma |

[†] When grid No.1 is driven positive, the total dc grid-No.1-circuit resistance should not exceed the specified value of 30000 ohms. If this value is insufficient to provide adequate bias, the additional required bias must be supplied by a cathode resistor or fixed supply.

^o Obtained preferably from a separate source, or from the plate-supply voltage with a voltage divider, or through a series resistor. A series grid-No.2 resistor should be used only when the 6524 is used in a circuit which is not keyed. It is recommended that this resistor be adjustable to permit obtaining the desired operating plate current after initial tuning adjustments are completed. Grid-No.2 voltage must not exceed 400 volts under key-up conditions.

^{oo} Obtained from fixed supply, by grid-No.1 resistor, by cathode resistor, or by combination methods.

^o, ^{oo}, ^{oo}: See next page.

TWIN BEAM POWER TUBE

| | CCS ^o | ICAS ^{oo} | |
|---|------------------|--------------------|-------|
| Driver Power Output (Approx.) | 4 | 4 | watts |
| Useful Power Output (Approx.) ^{oo} | 7 | 8.5 | watts |

Maximum Circuit Values:

| | | | |
|--|------------|------------|------|
| Grid-No.1-Circuit Resistance ^{††} | 60000 max. | 60000 max. | ohms |
|--|------------|------------|------|

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

| | Note | Min. | Max. | |
|---|------|-------|-------|------------------|
| Heater Current | 1 | 1.175 | 1.325 | amp |
| Mu-Factor, Grid No.2 to Grid No.1 (Each Unit) | 1,2 | 7.5 | 9.5 | |
| Direct Interelectrode Capacitances (Each Unit): | | | | |
| Grid No.1 to plate | 3 | - | 0.11 | $\mu\mu\text{f}$ |
| Grid No.1 to cathode & . grid No.3 & internal shield, grid No.2 (pins 1 & 7), and heater | 3 | 5.8 | 8.2 | $\mu\mu\text{f}$ |
| Plate to cathode & grid No.3 & internal shield, grid No.2 (pins 1 & 7), and heater | 3 | 2.6 | 4.2 | $\mu\mu\text{f}$ |

Note 1: With 6.3 volts ac on heater.

Note 2: With dc plate voltage of 200 volts, dc grid-No.2 voltage of 200 volts, and dc plate current of 50 ma.

Note 3: With no external shield.

^o Continuous Commercial Service.

^{oo} Intermittent Commercial and Amateur Service.

^{oo} This value of useful power is measured at load of output circuit.

^{††} When grid No.1 is driven positive, the total dc grid-No.1-circuit resistance should not exceed the specified value of 60000 ohms. If this value is insufficient to provide adequate bias, the additional required bias must be supplied by a cathode resistor or fixed supply.

OPERATING CONSIDERATIONS

Shielding of the 6524 in rf service is required for stable operation. A convenient method of shielding is to mount the socket approximately 5/8" beneath a hole in the chassis plate so that when the 6524 is inserted in the socket, the internal shield (see *Dimensional Outline*) of the tube will be close to the edge of the hole and in the same plane as the chassis plate. This arrangement provides an effective shield to isolate the grid-No.1 circuits from the plate circuits.



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TWIN BEAM POWER TUBE

| | CCS ^o | ICAS ^{oo} | |
|---|------------------|--------------------|-------|
| Driver Power Output (Approx.) | 4 | 4 | watts |
| Useful Power Output (Approx.) ^{oo} | 7 | 8.5 | watts |

Maximum Circuit Values:

Grid-No.1-Circuit Resistance^{††} . 60000 max. 60000 max. ohms

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

| | Note | Min. | Max. | |
|---|------|-------|-------|-----|
| Heater Current | 1 | 1.175 | 1.325 | amp |
| Mu-Factor, Grid No.2 to Grid No.1 (Each Unit) | 1,2 | 7 | 10 | |
| Direct Interelectrode Capacitances (Each Unit): | | | | |
| Grid No.1 to plate | 3 | - | 0.11 | μf |
| Grid No.1 to cathode & grid No.3 & internal shield, grid No.2 (pins 1 & 7), and heater | 3 | 5.8 | 8.2 | μf |
| Plate to cathode & grid No.3 & internal shield, grid No.2 (pins 1 & 7), and heater | 3 | 2.6 | 4.2 | μf |

- Note 1: With 6.3 volts ac on heater.
- Note 2: With dc plate voltage of 200 volts, dc grid-No.2 voltage of 200 volts, and dc plate current of 50 ma.
- Note 3: With no external shield.

- ^o Continuous Commercial Service.
- ^{oo} Intermittent Commercial and Amateur Service.
- ^{oo} This value of useful power is measured at load of output circuit.
- ^{††} When grid No.1 is driven positive, the total dc grid-No.1-circuit resistance should not exceed the specified value of 60000 ohms. If this value is insufficient to provide adequate bias, the additional required bias must be supplied by a cathode resistor or fixed supply.

OPERATING CONSIDERATIONS

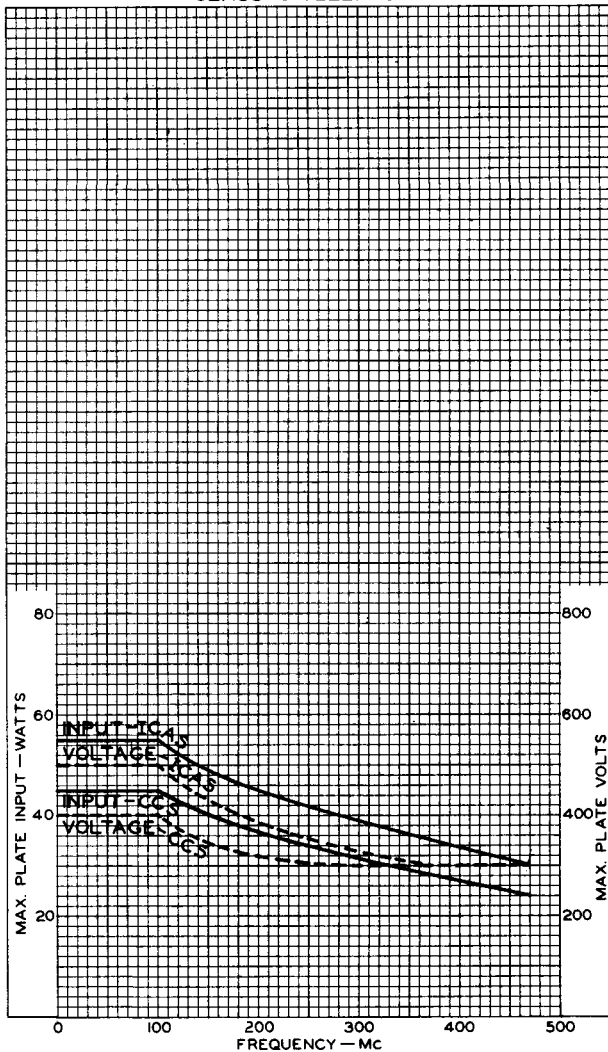
Shielding of the 6524 in rf service is required for stable operation. A convenient method of shielding is to mount the socket approximately 5/8" beneath a hole in the chassis plate so that when the 6524 is inserted in the socket, the internal shield (see *Dimensional Outline*) of the tube will be close to the edge of the hole and in the same plane as the chassis plate. This arrangement provides an effective shield to isolate the grid-No.1 circuits from the plate circuits.

← Indicates a change.



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RATING CHART I
CLASS C TELEPHONY

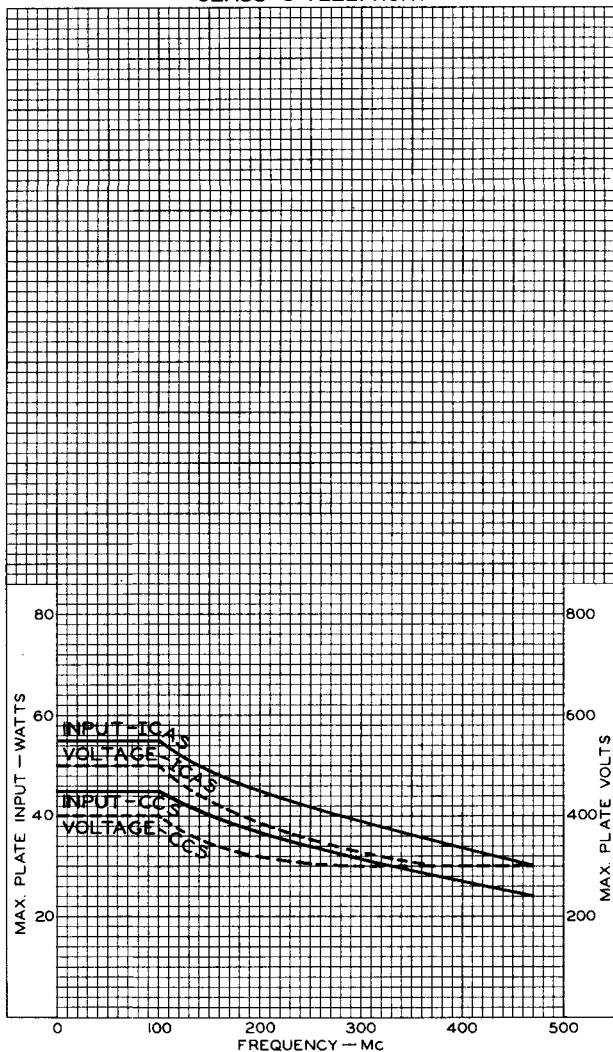


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RATING CHART I CLASS C TELEPHONY



TUBE DIVISION

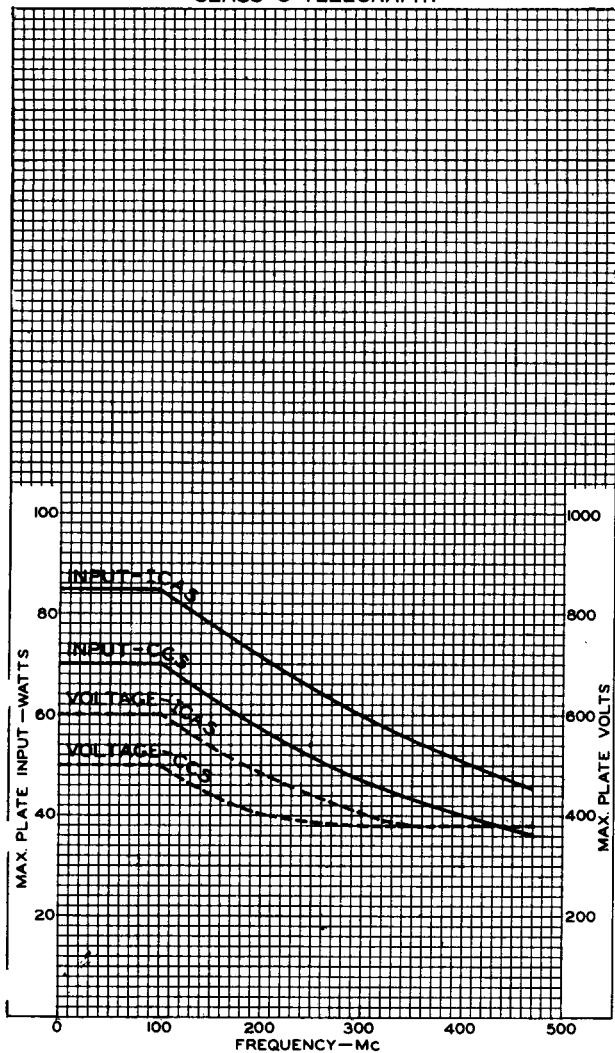
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-8347



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RATING CHART II
CLASS C TELEGRAPHY



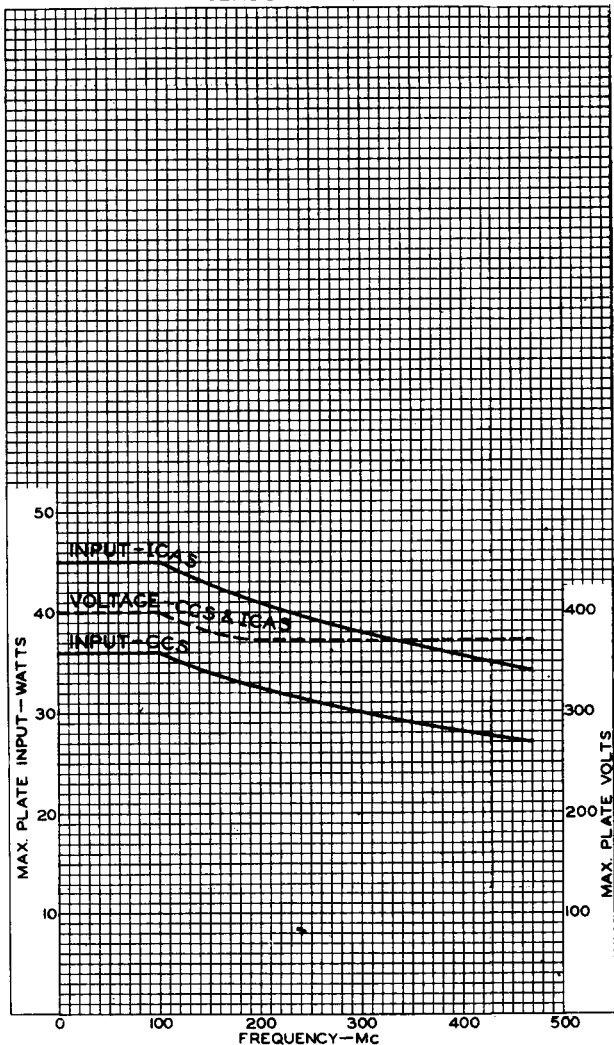
JULY 13, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-8348



6524
RATING CHART III
CLASS C TRIPLER

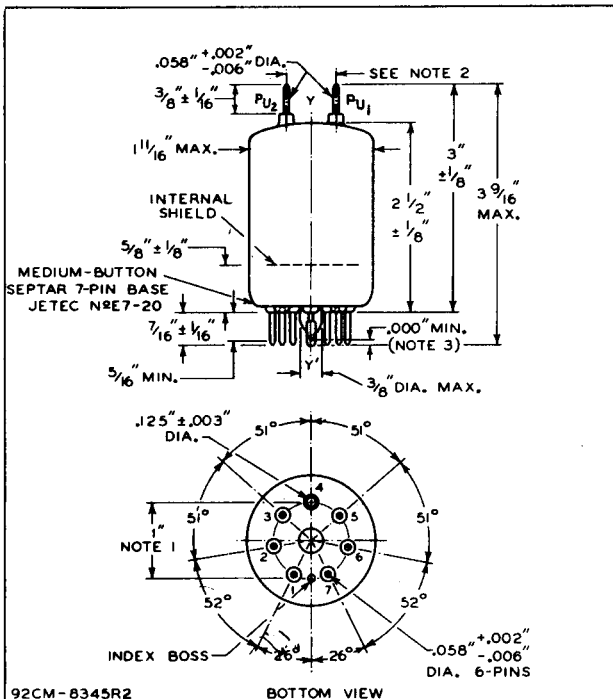




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THE REFERENCE AXIS YY' IS DEFINED AS THE AXIS OF THE BASE-PIN GAUGE DESCRIBED IN NOTE 1.

For Notes, see next page.

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NOTE 1: ANGULAR VARIATIONS BETWEEN PINS AND VARIATION IN PIN-CIRCLE DIAMETER ARE HELD TO TOLERANCES SUCH THAT PINS WILL ENTER TO A DISTANCE OF 0.375" A FLAT-PLATE BASE-PIN GAUGE HAVING SIX HOLES 0.0800" \pm 0.0005" AND ONE HOLE 0.1450" \pm 0.0005" ARRANGED ON A 1.0000" \pm 0.0005" CIRCLE AT SPECIFIED ANGLES WITH TOLERANCE OF \pm 5' FOR EACH ANGLE. GAUGE IS ALSO PROVIDED WITH A HOLE 0.500" \pm 0.010" CON-CENTRIC WITH PIN CIRCLE WHOSE CENTER IS ON THE AXIS YY'.

NOTE 2: THE PLATE LEADS WILL ENTER A FLAT-PLATE PLATE-LEAD GAUGE HAVING MINIMUM THICKNESS OF 0.375" AND HAVING TWO HOLES 0.1200" \pm 0.0005" WHOSE CENTERS ARE LOCATED AT A DISTANCE OF 0.343" \pm 0.001" FROM THE AXIS YY' AND WHOSE AXES ARE PARALLEL TO YY'. THE PLANE THROUGH THESE AXES WILL BE 90° \pm 5' FROM THE PLANE THROUGH YY' AND PIN No.4.

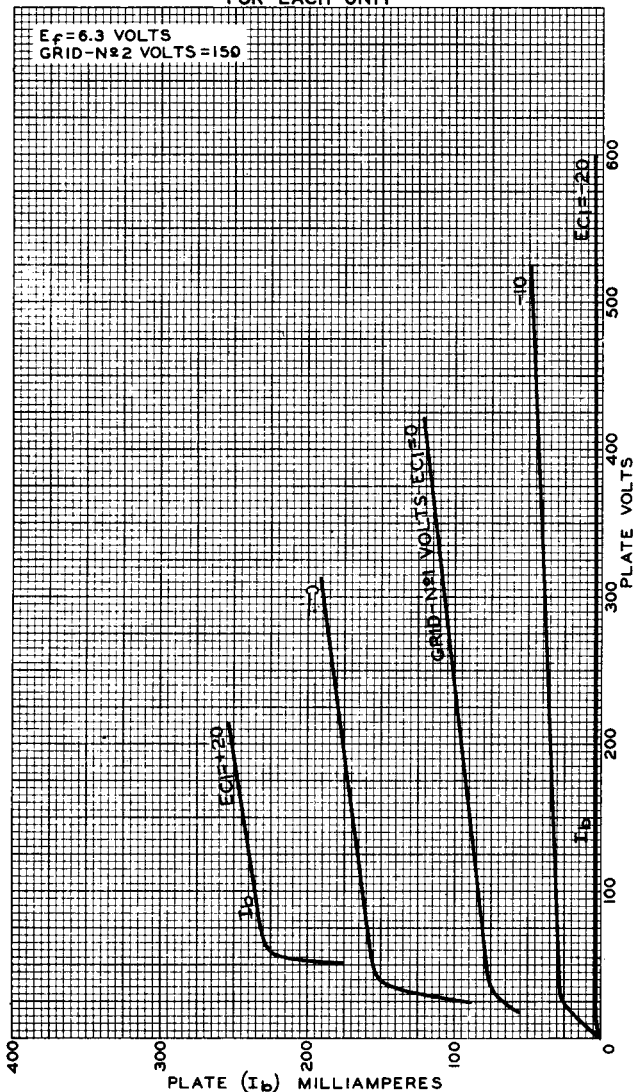
NOTE 3: EXHAUST TIP WILL NOT EXTEND BEYOND THE PLANE WHICH PASSES THROUGH THE ENDS OF THE THREE LONGEST PINS.



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AVERAGE PLATE CHARACTERISTICS FOR EACH UNIT



JULY 15, 1954

PLATE (I_b) MILLIAMPERES
TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

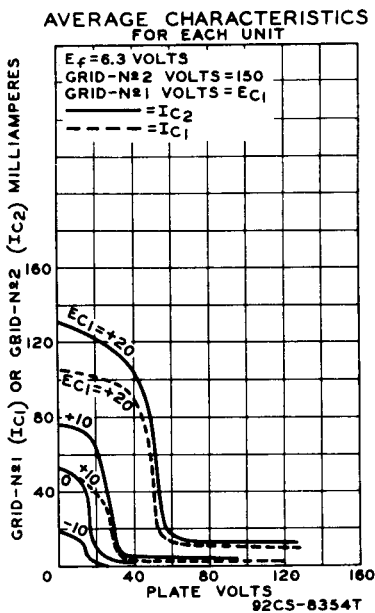
92CM-8350

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CHARACTERISTICS CURVES



AUG. 16, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

CF-8354T

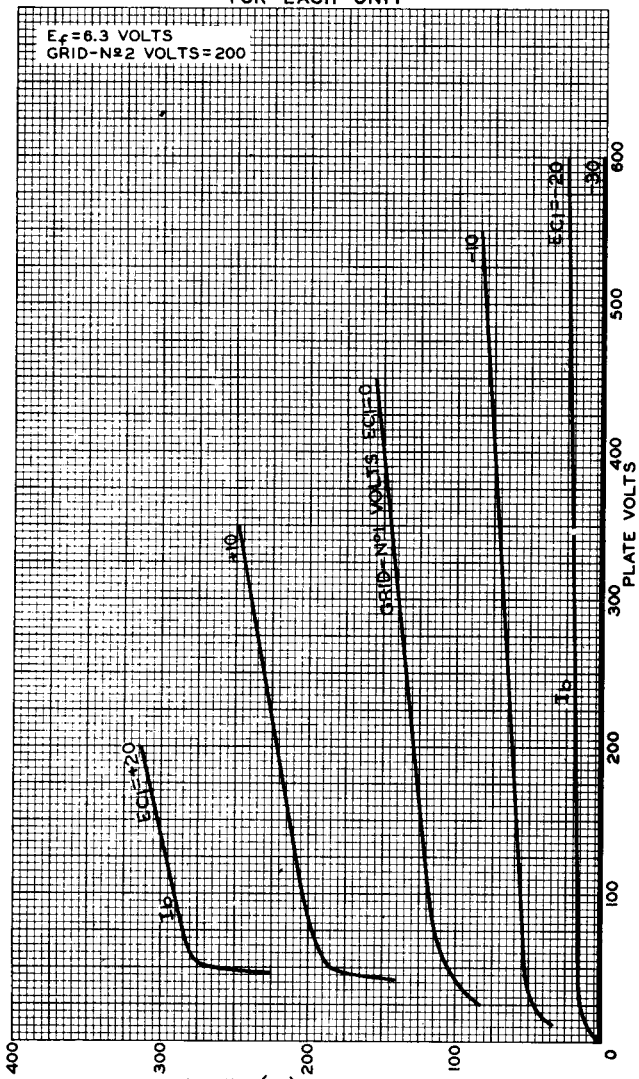


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AVERAGE PLATE CHARACTERISTICS FOR EACH UNIT

$E_f = 6.3$ VOLTS
GRID-#2 VOLTS = 200



JULY 12, 1954

PLATE (I_b) MILLIAMPERES
TUBE DIVISION

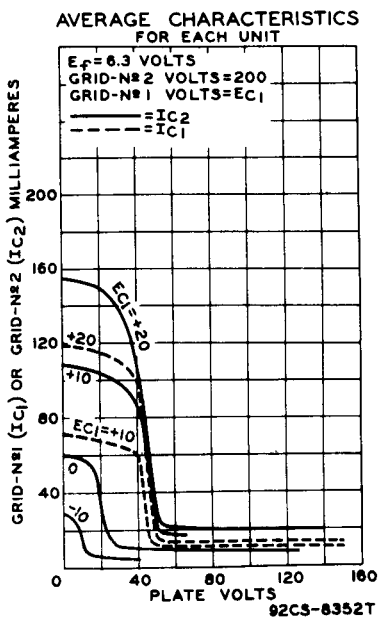
92CM-8346

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CHARACTERISTICS CURVES



AUG. 16, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

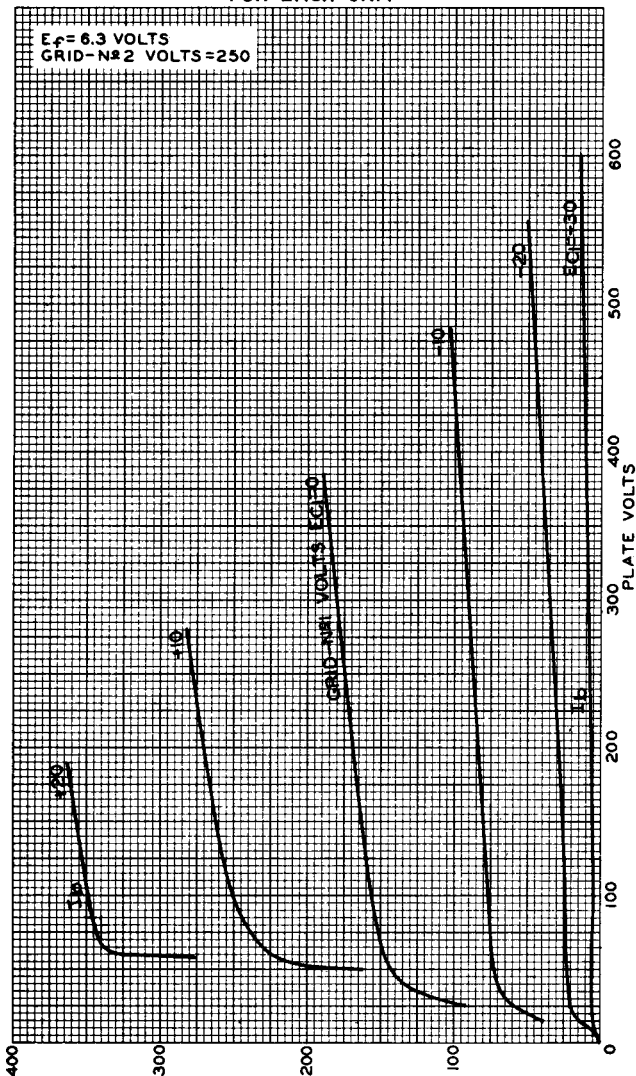
CE-8352T



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AVERAGE PLATE CHARACTERISTICS FOR EACH UNIT



JULY 15, 1954

PLATE (I_b) MILLIAMPERES
TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

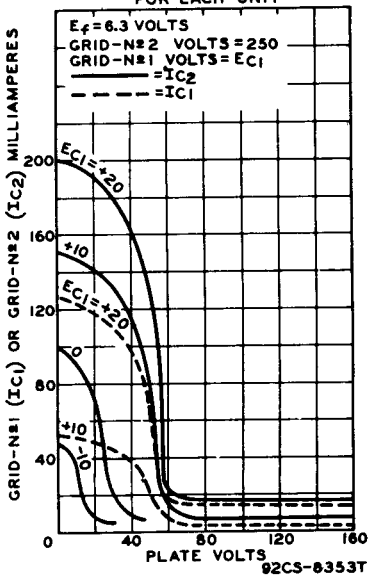
92CM-8351

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CHARACTERISTICS CURVES

AVERAGE CHARACTERISTICS
FOR EACH UNIT

AUG. 16, 1954

 TUBE DIVISION
 RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

CE-8353T