

## TUNG-SOL

## U-H-F AMPLIFIER - OSCILLATOR TRIODE

MINIATURE TYPE

## PHYSICAL SPECIFICATIONS

| EMITTER COATED UNIPOT. CATHODE                                 |                   | PIN CONNECTIONS |                   |
|----------------------------------------------------------------|-------------------|-----------------|-------------------|
| BASE                                                           | MIN. BUTTON 7-PIN | PIN 1 GRID      | PIN 7 GRID        |
| CAP                                                            |                   | PIN 2 CATHODE   | PIN 8 NONE        |
| BULB                                                           | 1-5 $\frac{1}{2}$ | PIN 3 HEATER    |                   |
| MAXIMUM DIAMETER                                               | 3/4"              | PIN 4 HEATER    | MOUNTING POS. ANY |
| MAXIMUM OVERALL LENGTH                                         | 1 3/4"            | PIN 5 PLATE     |                   |
| MAXIMUM SEATED HEIGHT                                          | 1 1/2"            | PIN 6 CATHODE   |                   |
| MAXIMUM HEIGHT TO CIRCLE OF 7/16" DIAMETER - 1 1/8 $\pm$ 3/32" |                   |                 |                   |

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

|                                       |       |       |
|---------------------------------------|-------|-------|
| HEATER OR FILAMENT VOLTAGE (AC OR DC) | 6.3   | VOLTS |
| HEATER OR FILAMENT CURRENT            | 0.200 | AMP.  |
| MAXIMUM PLATE VOLTAGE                 | 180   | VOLTS |
| MAXIMUM SCREEN VOLTAGE                |       | VOLTS |
| MAXIMUM PLATE DISSIPATION             | 3.0   | WATTS |
| MAXIMUM SCREEN DISSIPATION            |       | WATTS |
|                                       |       |       |
|                                       |       |       |

## CAPACITANCES (APPROX.)

WITH CLOSE-FITTING SHIELD CONNECTED TO GRID

|                   |      |            |
|-------------------|------|------------|
| GRID TO PLATE     | 2.35 | $\mu\mu f$ |
| INPUT             | 3.10 | $\mu\mu f$ |
| OUTPUT            | 0.55 | $\mu\mu f$ |
| HEATER TO CATHODE | 3.0  | $\mu\mu f$ |

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

## CLASS A AMPLIFIER

|                               |       |                  |
|-------------------------------|-------|------------------|
| HEATER OR FILAMENT VOLTAGE    | 6.3   | VOLTS            |
| HEATER OR FILAMENT CURRENT    | 0.200 | AMPS.            |
| PLATE VOLTAGE                 | 180   | VOLTS            |
| SCREEN VOLTAGE                |       | VOLTS            |
| CONTROL GRID VOLTAGE          | -3.5  | VOLTS            |
| PEAK AF SIGNAL VOLTAGE        |       | VOLTS            |
| ZERO-SIGNAL PLATE CURRENT     |       | MA.              |
| ZERO-SIGNAL SCREEN CURRENT    |       | MA.              |
| PLATE CURRENT                 | 12    | MA.              |
| MAXIMUM-SIGNAL SCREEN CURRENT |       | MA.              |
| PLATE RESISTANCE (APPROX.)    | 5400  | OHMS             |
| TRANSCONDUCTANCE (APPROX.)    | 6000  | $\mu\text{MHOS}$ |
| AMPLIFICATION FACTOR          | 32    |                  |
| LOAD RESISTANCE               |       | OHMS             |
| TOTAL HARMONIC DISTORTION     |       | PER CENT         |
| POWER OUTPUT                  |       | WATTS            |

NOTE: THE 6N4 IS A HEATER-CATHODE TYPE OF MINIATURE TRIODE ESPECIALLY APPLICABLE AS AN AMPLIFIER OR OSCILLATOR AT FREQUENCIES EXTENDING TO APPROXIMATELY 500 MEGACYCLES.

PLATE  
1681

FEB. 15  
1946