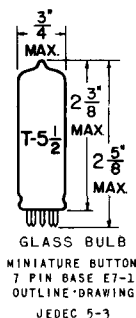


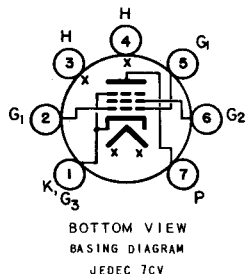
## TUNG-SOL



BEAM PENTODE  
MINIATURE TYPE  
COATED UNIPOTENTIAL CATHODE

HEATER  
25±10% VOLTS 0.30 AMP.  
AC OR DC

ANY MOUNTING POSITION  
FOR SERIES STRING



THE 25C5 IS A HEATER-CATHODE TYPE, BEAMPENTODE OF MINIATURE CONSTRUCTION DESIGNED FOR USE AS A POWER AMPLIFIER IN THE OUTPUT STAGE OF AC-DC RECEIVERS. EXCEPT FOR HEATER RATINGS THE 25C5 IS IDENTICAL TO THE 50C5.

DIRECT INTERELECTRODE CAPACITANCES — APPROX.  
WITH NO EXTERNAL SHIELD

|                                                       |      |         |
|-------------------------------------------------------|------|---------|
| GRID TO PLATE: $G_1$ TO P                             | 0.6  | $\mu f$ |
| INPUT: $G_1$ TO (H+K&G <sub>3</sub> +G <sub>2</sub> ) | 13.0 | $\mu f$ |
| OUTPUT: P TO (H+K&G <sub>3</sub> +G <sub>2</sub> )    | 8.5  | $\mu f$ |

## RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

|                                                                |        |        |
|----------------------------------------------------------------|--------|--------|
| HEATER CURRENT                                                 | 300±20 | MA.    |
| MAXIMUM HEATER-CATHODE VOLTAGE:                                |        |        |
| HEATER NEGATIVE WITH RESPECT TO CATHODE                        |        |        |
| DC AND PEAK                                                    | 200    | VOLTS  |
| HEATER POSITIVE WITH RESPECT TO CATHODE                        |        |        |
| DC                                                             | 100    | VOLTS  |
| DC AND PEAK                                                    | 200    | VOLTS  |
| MAXIMUM PLATE VOLTAGE                                          | 150    | VOLTS  |
| MAXIMUM GRID #2 VOLTAGE                                        | 130    | VOLTS  |
| MAXIMUM PLATE DISSIPATION                                      | 7      | WATTS  |
| MAXIMUM GRID #2 DISSIPATION                                    | 1.4    | WATTS  |
| MAXIMUM POSITIVE DC GRID #1 VOLTAGE                            | 0      | VOLTS  |
| MAXIMUM GRID #1 CIRCUIT RESISTANCE:                            |        |        |
| FIXED BIAS                                                     | 0.1    | MEGOHM |
| CATHODE BIAS                                                   | 0.5    | MEGOHM |
| MAXIMUM BULB TEMPERATURE<br>(AT HOTTEST POINT ON BULB SURFACE) | 220    | °C     |

ALL ELECTRICAL DATA EXCEPT HEATER CHARACTERISTICS FOR TYPE 25C5 ARE IDENTICAL WITH THOSE OF TYPES 12C5, 12CU5, 17C5, 50C5 AND 50B5.

→ INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS  $A_1$  AMPLIFIER

|                                |        |            |
|--------------------------------|--------|------------|
| PLATE VOLTAGE                  | 120    | VOLTS      |
| GRID #2 VOLTAGE                | 110    | VOLTS      |
| GRID #1 VOLTAGE                | -8     | VOLTS      |
| PEAK AF GRID #1 VOLTAGE        | 8      | VOLTS      |
| ZERO-SIGNAL PLATE CURRENT      | 49     | MA.        |
| ZERO-SIGNAL GRID #2 CURRENT    | 4      | MA.        |
| MAXIMUM SIGNAL PLATE CURRENT   | 50     | MA.        |
| MAXIMUM SIGNAL GRID #2 CURRENT | 8.5    | MA.        |
| PLATE RESISTANCE (APPROX.)     | 10 000 | OHMS       |
| TRANSCONDUCTANCE               | 7 500  | $\mu$ MHOS |
| LOAD RESISTANCE                | 2 500  | OHMS       |
| TOTAL HARMONIC DISTORTION      | 10     | PERCENT    |
| MAXIMUM SIGNAL POWER OUTPUT    | 2.3    | WATTS      |

