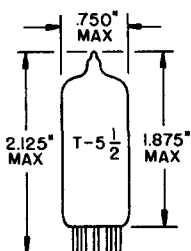
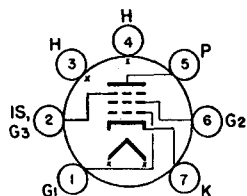


**TUNG-SOL**
**PENTODE**  
**MINIATURE TYPE**

FOR

**MOBILE COMMUNICATIONS**  
**EQUIPMENT**
**COATED UNIPOTENTIAL CATHODE**  
**ANY MOUNTING POSITION**

**GLASS BULB**  
**MINIATURE BUTTON**  
**7 PIN BASE E7-1**  
**OUTLINE DRAWING**  
**JEDEC 5-2**

**BOTTOM VIEW**  
**BASING DIAGRAM**  
**JEDEC 7CC**

THE 6660 IS A MINIATURE REMOTE-CUTOFF PENTODE DESIGNED FOR USE AS A WIDE-BAND HIGH-FREQUENCY AMPLIFIER. FEATURES OF THE TUBE INCLUDE LOW GRID-PLATE CAPACITANCE AND RELATIVELY HIGH TRANSCONDUCTANCE. ITS ELECTRICAL CHARACTERISTICS ARE ESSENTIALLY EQUIVALENT TO THOSE OF THE 6BA6.

THE 6660 MAY BE OPERATED WITHOUT SERIOUS DEGRADATION UNDER NORMAL VARIATIONS IN SUPPLY VOLTAGE AS ENCOUNTERED WITH AUTOMOTIVE ELECTRICAL SYSTEMS. ALTHOUGH THE TUBE WILL TOLERATE LARGE HEATER VOLTAGE VARIATIONS FOR SHORT PERIODS, HIGHER EQUIPMENT RELIABILITY CAN BE ACHIEVED WITH IMPROVED SUPPLY-VOLTAGE REGULATION.

**DIRECT INTERELECTRODE CAPACITANCES**

|                          | WITH SHIELD <sup>A</sup> | WITHOUT SHIELD |    |
|--------------------------|--------------------------|----------------|----|
| GRID 1 TO PLATE, MAXIMUM | 0.0035                   | 0.0035         | pf |
| INPUT                    | 5.5                      | 5.5            | pf |
| OUTPUT                   | 5.5                      | 5.0            | pf |

<sup>A</sup> WITH EXTERNAL SHIELD 316 CONNECTED TO PIN 7.

**HEATER CHARACTERISTICS AND RATINGS**

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

|                                         |     |       |         |       |
|-----------------------------------------|-----|-------|---------|-------|
| AVERAGE CHARACTERISTICS                 | 6.3 | VOLTS | 300     | MA.   |
| HEATER SUPPLY LIMITS:                   |     |       |         |       |
| VOLTAGE OPERATION                       |     |       | 6.3±1.3 | VOLTS |
| MAXIMUM HEATER-CATHODE VOLTAGE:         |     |       |         |       |
| HEATER NEGATIVE WITH RESPECT TO CATHODE |     |       | 100     | VOLTS |
| HEATER POSITIVE WITH RESPECT TO CATHODE |     |       | 100     | VOLTS |

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

|                            |                  |       |
|----------------------------|------------------|-------|
| PLATE VOLTAGE              | 330              | VOLTS |
| GRID 2 SUPPLY VOLTAGE      | 330              | VOLTS |
| GRID 2 VOLTAGE             | See Rating Chart |       |
| POSITIVE DC GRID 1 VOLTAGE | 0                | VOLTS |
| NEGATIVE DC GRID 1 VOLTAGE | 55               | VOLTS |
| PLATE DISSIPATION          | 3.3              | WATTS |
| GRID 2 DISSIPATION         | 0.65             | WATTS |

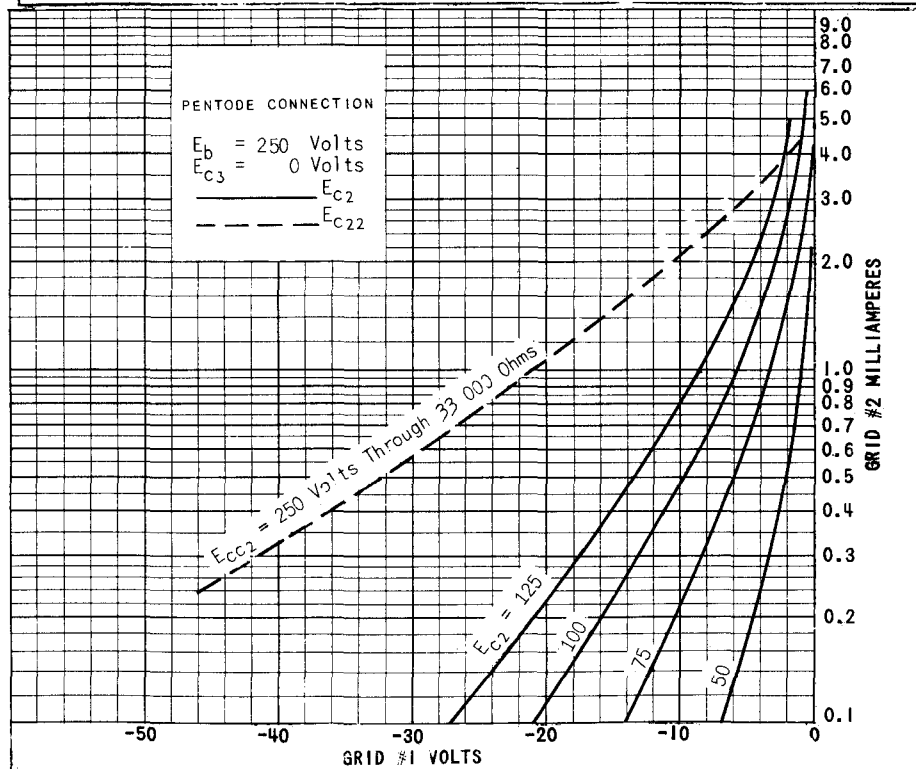
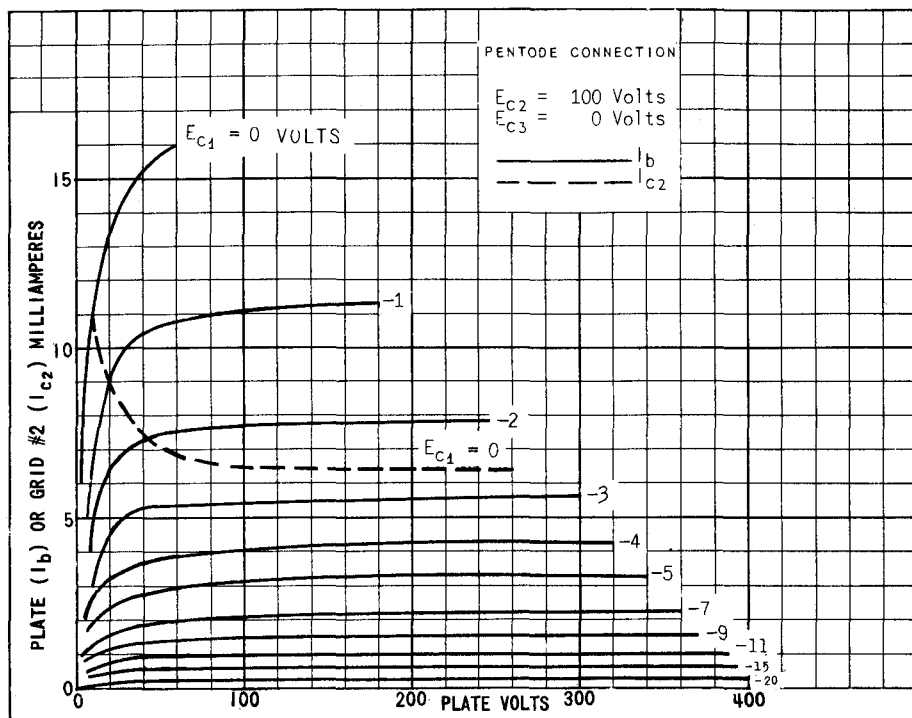
TYPICAL OPERATING CHARACTERISTICS

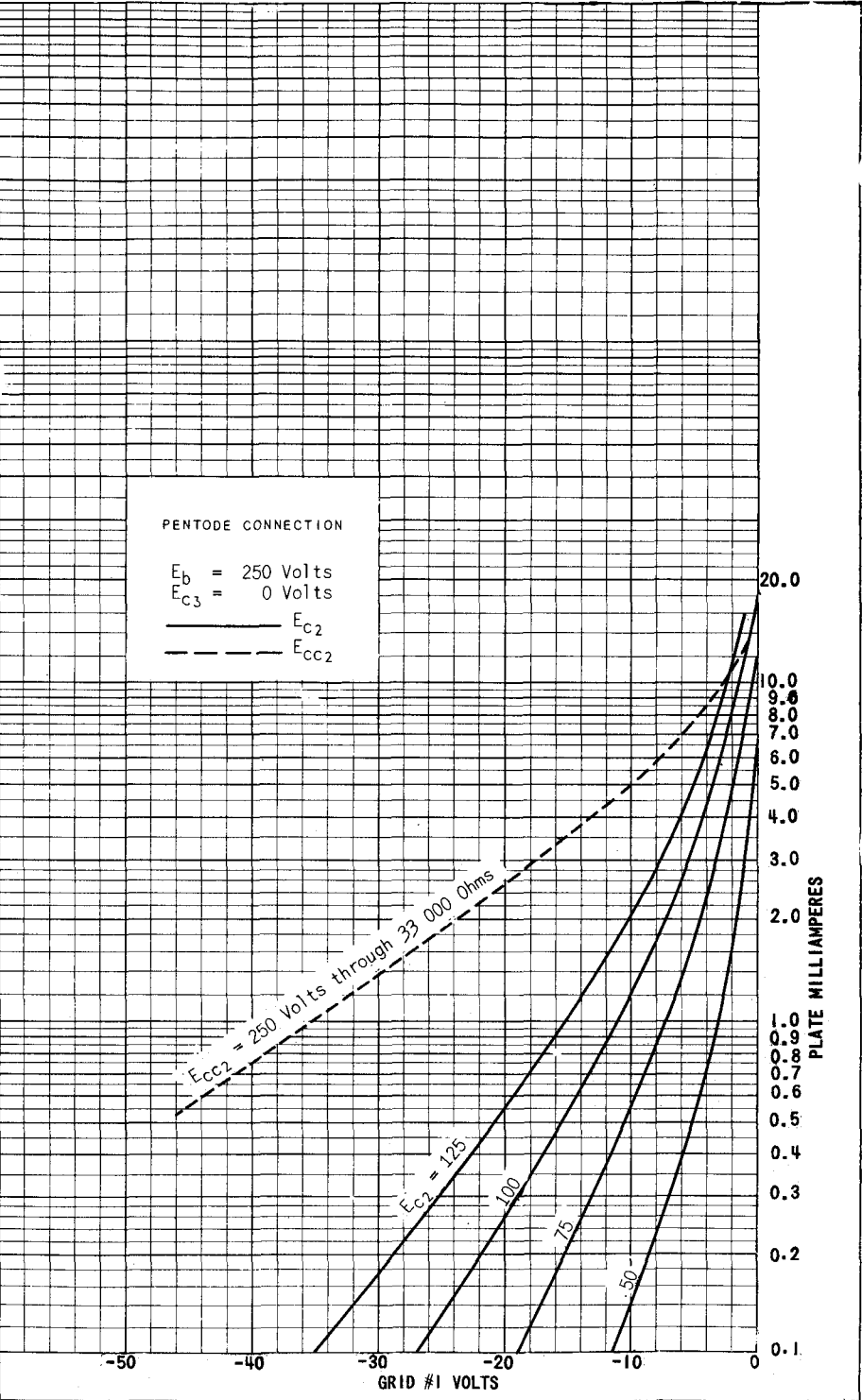
CLASS A1 AMPLIFIER

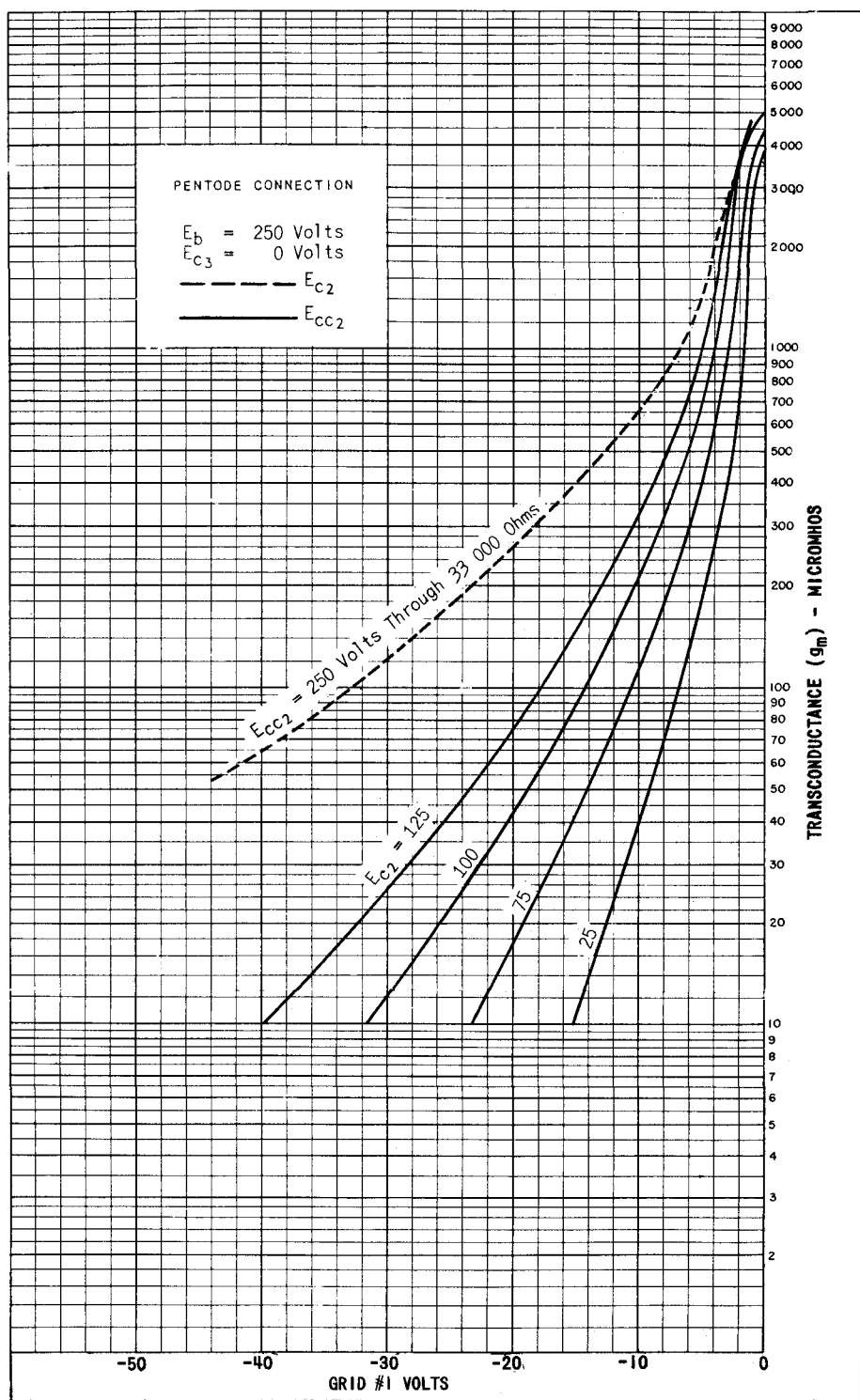
|                               |       |       |            |
|-------------------------------|-------|-------|------------|
| PLATE VOLTAGE                 | 100   | 250   | VOLTS      |
| GRID 3 VOLTAGE                | 0     | 0     | VOLTS      |
| GRID 2 VOLTAGE                | 100   | 100   | VOLTS      |
| CATHODE-BIAS RESISTOR         | 68    | 68    | OHMS       |
| PLATE CURRENT                 | 10.8  | 11    | MA.        |
| GRID 2 CURRENT                | 4.4   | 4.2   | MA.        |
| TRANSCONDUCTANCE              | 4,300 | 4,400 | $\mu$ MHOS |
| PLATE RESISTANCE, APPROXIMATE | 0.25  | 1.0   | MEGOHMS    |
| GRID 1 VOLTAGE, APPROXIMATE   |       |       |            |
| $G_m = 40 \mu$ MHOS           | -20   | -20   | VOLTS      |

SPECIAL TESTS AND RATINGS

HEATER-CYCLING RATING







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