

6661/6BH6

SHARP-CUTOFF PENTODE

7-PIN MINIATURE TYPE

For use in mobile communications equipment

GENERAL DATA	
Electrical:	
Heater, for Unipotential Cathode: Voltage 6.3 ± 20%* Current at 6.3 volts 0.15 Direct Interelectrode Capacitances:	.ac or dc volts
Without External Shield	With External Shield ⁰
Grid No.1 to plate 0.0035 max. Grid No.1 to cathode, grid No.3 & internal shield,	0.0035 max. μμf
grid No.2, and heater 5.4 Plate to cathode, grid No.3 & internal shield, grid	5.4 μμf
No. 2, and heater 4.4	4.4 μμf
Characteristics, Class A Amplifier:	
Heater Voltage	250 volts
Cathode Resistor	100 ohms 1.4 megohms 4600 μmhos
Plate Current	7.4 ma 2.6 ma -7.7 volts
Mechanical:	
Operating Position	1-1/2" ± 3/32" 0.650" to 0.750" General Section
Pin 1-Grid No.1	6- Grid No. 2 7- Grid No. 3,
Pin 3 - Heater Pin 4 - Heater Pin 5 - Plate	Internal Shield

600)

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AMPLIFIER Class A	
Maximum Ratings, Design-Maximum Values:	
PLATE VOLTAGE	
GRID-No. 2 VOLTAGE See Grid-No. 2 Input Rating Chart at front of Receiving Tube Section	
GRID-No.1 (CONTROL-GRID) VOLTAGE:	
Negative-bias value 55 max. volts Positive-bias value 0 max. volts GRID-No.2 INPUT: For grid-No.2 voltages	
up to 165 volts 0.55 max. watt For grid—No.2 voltages between 165 and 330	
volts See Grid-No.2 Input Rating Chart	
At front of Receiving Tube Section PLATE DISSIPATION 3.3 max. watts PEAK HEATER-CATHODE VOLTAGE:	
Heater negative with respect to cathode 100 max. volts Heater positive with respect to cathode 100 max. volts	
* When the heater is operated from storage-battery-with-charger supply or similar supplies, the normal battery-voltage fluctuation may be as much as 35 per cent or more. Although such variation in heater voltage is permissible for short periods, reliability can be increased with improved supply-voltage regulation.	
⁰ With external shield JEDEC No.316 connected to cathode.	
SPECIAL RATINGS & PERFORMANCE DATA	
Heater-Cycling Life Performance:	
This test is performed on a sample lot of tubes from each production run. A minimum of 2000 cycles of intermittent operation is applied under the following conditions: heater volts = 7.5 cycled one minute on and one minute off, heater 135 volts positive with respect to cathode, and all other	
elements connected to ground. At the end of this test, tubes are checked for heater-cathode shorts and open circuits.	
Transconductance at Reduced Heater Voltage:	
Average Value	