

### BEAM POWER TUBE

Miniature type used in audio output stages of television and radio receivers. Outline 14, OUTLINES SECTION. Tube requires miniature nine-contact socket and may be mounted in any position. Heater volts (ac/dc), 6.3; amperes, 1.2. This type is used principally for renewal purposes.

## 6BK5

#### CLASS A<sub>1</sub> AMPLIFIER

**Maximum Ratings:**

PLATE VOLTAGE.....	250 <i>max</i>	volts
GRID-NO.2 (SCREEN-GRID) VOLTAGE.....	250 <i>max</i>	volts
DC GRID-NO.1 (CONTROL-GRID) VOLTAGE:		
Positive bias value.....	0 <i>max</i>	volts
GRID-NO.2 INPUT.....	2.5 <i>max</i>	watts
PLATE DISSIPATION.....	9 <i>max</i>	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.....	100 <i>max</i>	volts
Heater positive with respect to cathode.....	100 <i>max</i>	volts

**Typical Operation:**

Plate Voltage.....	250	volts
Grid-No.2 Voltage.....	250	volts
Grid-No.1 Voltage.....	-5	volts
Peak AF Grid-No.1 Voltage.....	5	volts
Zero-Signal Plate Current.....	35	ma
Maximum-Signal Plate Current (Approx.).....	37	ma
Zero-Signal Grid-No.2 Current.....	3.5	ma
Maximum-Signal Grid-No.2 Current (Approx.).....	10	ma
Plate Resistance (Approx.).....	0.1	megohm
Transconductance.....	8500	$\mu$ mhos
Load Resistance.....	6500	ohms
Total Harmonic Distortion (Approx.).....	7	per cent
Power Output.....	3.5	watts

**Maximum Circuit Values:**

Grid-No.1-Circuit Resistance:		
For fixed-bias operation.....	0.1 <i>max</i>	megohm
For cathode-bias operation.....	0.5 <i>max</i>	megohm

