THE KT120 IS A BEAM PENTODE POWER AMPLIFIER PRIMARILY DESIGNED FOR AUDIO SERVICE. IT CARRIES A 60 WATT PLATE DISSIPATION RATING WHICH PROVIDES FOR PUSH-PULL AMPLIFIER DESIGNS UP TO 200 WATTS OUTPUT. CONSTRUCTION FEATURES PROVIDE FOR RELIABLE OPERATION AT FULL RATINGS.

DIRECT INTERELECTRODE CAPACITANCES
WITHOUT SHIELD

GRID 1 TO PLATE 1.8 pf
INPUT 29 pf
OUTPUT 10 pf

HEATER CHARACTERISTICS AND RATINGS
DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS 6.3 VOLTS 1.7 - 1.95 AMP
HEATER SUPPLY LIMITS 
VOLTAGE OPERATION 6.3 +/- 0.6 VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE
HEATER NEGATIVE WITH RESPECT TO CATHODE
TOTAL DC AND PEAK 300 VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE
TOTAL DC AND PEAK 200 VOLTS

CONTINUED ON FOLLOWING PAGE

INDICATES A CHANGE
## Maximum Ratings

**Plate Voltage, DC**
- Tetrode: 850 Volts
- Triode: 650 Volts

**Grid 2 Voltage, DC**
- Pentode Connection: 650 Volts
- Triode & Ultralinear Connection: 600 Volts

**Grid 1 Voltage, DC**
- Plate Dissipation: -200 Volts
- Grid 2 Dissipation: 60 Watts

**Cathode Current**
- Pentode Connection: 250 Ma
- Triode & Ultralinear Connection: 230 Ma

**Grid 1 Circuit Resistance**
- Fixed Bias: 51,000 Ohms
- Self Bias: 240,000 Ohms
- Bulb Temperature: 250 Celsius

## Average Characteristics

**Class A1 Audio Amplifier - Single Tube**

- Plate Voltage: 400 Volts
- Grid 2 Voltage: 225 Volts
- Grid 1 Voltage: -14 Volts
- Grid 2 Current (Range): 135 - 165 Ma
- Plate Current (Range): 14 Ma
- Transconductance (Not Less Than): 12.5 mA/V
- Plate Resistance (Approx.): 3000 Ohms
- Max. Signal Power Output (Not Less Than): 20 Watts
- Total Harmonic Distortion (Not More Than): 14 Percent
- Cathode to Heater Leakage (Not More Than): 30 mA

(With ±300V Heater to Cathode Difference)