



6884

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BEAM POWER TUBE

FORCED-AIR COOLED

Useful at frequencies up to 2000 Mc

The 6884 is the same as the 6816 except for the following items:

Heater, for Unipotential Cathode:

Voltage§ 26.5 ± 10% . . . ac or dc volts

Current. 0.52 amp

§ Because the cathode is subjected to considerable back bombardment as the frequency is increased with resultant increase in temperature, the heater voltage should be reduced depending on operating conditions and frequency to prevent overheating the cathode and resultant short life.

Beam Power Tube

COAXIAL-ELECTRODE STRUCTURE
 CERAMIC-METAL SEALS
 UNIPOTENTIAL CATHODE

FORCED-AIR COOLED
 INTEGRAL RADIATOR
 180 WATTS CW INPUT UP TO 1215 Mc

For Use at Frequencies up to 2000 Mc

The 6884 is the same as the 6816 except for the following items:

Heater, for Unipotential Cathode:

| | | |
|---|------------|-------|
| Voltage (AC or DC) ^a | 26.5 ± 10% | volts |
| Current at heater volts = 26.5 | 0.52 | amp |

^a Because the cathode is subjected to considerable back bombardment as the frequency is increased with resultant increase in temperature, the heater voltage should be reduced depending on operating conditions and frequency to prevent overheating the cathode and resultant short life.

CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN ←

| | Note | Min. | Max. | |
|-------------------------------|------|------|------|-------|
| Heater Current | 1 | 0.45 | 0.57 | amp |
| Useful Power Output | 8 | 80 | - | watts |

Note 1: With 26.5 volts ac or dc on heater.

Note 8: In a single-tube, grid-driven coaxial-cavity class C amplifier circuit at 400 Mc and for conditions with 24.0 volts ac or dc on heater, dc plate voltage of 1000 volts, dc grid-No.2 voltage of 300 volts, grid-No.1 resistor adjustable between 1000 and 10,000 ohms, dc plate current of 180 ma. maximum, dc grid-No.1 current of 20 ma. maximum, and driver power output of 3 watts.

← Indicates a change.



Beam Power Tube

CERMOLOX TYPE

OXIDE-COATED CATHODE
80 WATTS CW POWER OUTPUT
AT 400 MHz

FORCED-AIR COOLED
40 WATTS CW POWER OUTPUT
AT 1215 MHz

For Use in Compact Aircraft, Mobile, and Stationary Equipment

The 6884 is the same as the 6816 except for the following items:

Heater, for Unipotential Cathode

| | | |
|--|------------|-----|
| Voltage (AC or DC) | { 26.5 typ | V |
| | { 29.2 max | V |
| Current at heater volts = 26.5 | 0.54 | A ← |

CHARACTERISTICS RANGE VALUES

| | Note | Min. | Max. | |
|-------------------------------|------|------|------|-----|
| Heater Current | 1 | 0.48 | 0.60 | A ← |
| Useful Power Output | 8 | 80 | - | W |

Note 1: With 26.5 volts ac or dc on heater.

Note 8: In a single-tube, grid-driven coaxial-cavity class C amplifier circuit at 400 MHz and for conditions with 24.0 volts ac or dc on heater, dc plate voltage of 1000 volts, dc grid-No.2 voltage of 300 volts, grid-No.1 resistor adjustable between zero and 10,000 ohms, dc plate current of 180 mA maximum, dc grid-No.1 current of 30 mA maximum, and driver power output of 3 watts.

← Indicates a change.

