



**ELECTRONIC
INNOVATIONS
IN ACTION**

TUBES

— PRODUCT INFORMATION —

3CB6

Pentode

The 3CB6 is a miniature pentode designed for use as a radio-frequency or intermediate-frequency amplifier in television receivers. Features of the tube include high transconductance and low interelectrode capacitances. The suppressor and cathode terminals are brought out to separate base pins to permit the use of an unbypassed cathode-bias resistor to minimize the effects of regeneration.

Except for heater characteristics and heater-cathode voltage ratings, the 3CB6 is identical to the 6CB6-A.

GENERAL

ELECTRICAL

Cathode - Coated Unipotential

Heater Characteristics and Ratings

Heater Voltage, AC or DC*	. . . . .	3.15	Volts
Heater Current‡	. . . . .	0.6±0.04	Amperes
Heater Warm-up Time, average§	. . . . .	11	Seconds

MAXIMUM RATINGS

DESIGN-MAXIMUM VALUES

Heater-Cathode Voltage

Heater Positive with Respect to Cathode

DC Component	. . . . .	100	Volts
Total DC and Peak	. . . . .	200	Volts

Heater Negative with Respect to Cathode

DC Component	. . . . .	200	Volts
Total DC and Peak	. . . . .	300	Volts

NOTES

- * Heater voltage for a bogey tube at $I_f = 0.6$ amperes.
- ‡ The equipment designer should design the equipment so that heater current is centered at the specified bogey value, with heater supply variations restricted to maintain heater current within the specified tolerance.
- § The time required for the voltage across the heater to reach 80 percent of the bogey value after applying 4 times the bogey heater voltage to a circuit consisting of the tube heater in series with a resistance equal to 3 times the bogey heater voltage divided by the bogey heater current.

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