



**ELECTRONIC  
INNOVATIONS**  
IN ACTION

**TUBES**

**— PRODUCT INFORMATION —**

<b>17AX3</b>
<b>17BE3</b>
<b>17BF11</b>
<b>17BF11-A</b>
<b>17BW3</b>
<b>17BZ3</b>

**17AX3 through 17BZ3**

**17AX3 Compactron Diode.** The 17AX3 is a compactron, single heater-cathode type diode, intended for service as the damping diode in the horizontal-deflection circuit of television receivers.

Except for heater characteristics and ratings, the 17AX3 is identical to the 6AX3 and 12AX3.

**GENERAL**

**ELECTRICAL**

Cathode - Coated Unipotential

Heater Characteristics and Ratings

Heater Voltage, AC or DC*	16.8	Volts
Heater Current	0.45 ± 0.03	Amperes
Heater Warm-up Time, Average	11	Seconds

**17BE3 Compactron Diode.** The 17BE3 is a compactron, single heater-cathode type diode, intended for service as the damping diode in the horizontal-deflection circuit of television receivers.

Except for heater characteristics and ratings, the 17BE3 is identical to the 6BE3 and 12BE3.

**GENERAL**

**ELECTRICAL**

Cathode - Coated Unipotential

Heater Characteristics and Ratings

Heater Voltage, AC or DC*	16.8	Volts
Heater Current	0.45 ± 0.03	Amperes
Heater Warm-up Time, Average	11	Seconds

**17BF11 Compactron Dissimilar Double Pentode.** The 17BF11 is a compactron containing a sharp-cutoff dual-control pentode and a power pentode. The dual-control pentode is intended for use as an FM detector and the power pentode as an audio-frequency output amplifier in television receivers.

Except for heater characteristics and ratings, the 17BF11 is identical to the 6BF11.

**GENERAL**

**ELECTRICAL**

Cathode - Coated Unipotential

Heater Characteristics and Ratings

Heater Voltage, AC or DC*	16.8	Volts
Heater Current	0.45 ± 0.03	Amperes
Heater Warm-up Time, Average	11	Seconds

The tubes and arrangements disclosed herein may be covered by patents of General Electric Company or others. Neither the disclosure of any information herein nor the sale of tubes by General Electric Company conveys any license under patent claims covering combinations of tubes with other devices or elements. In the absence of an

express written agreement to the contrary, General Electric Company assumes no liability for patent infringement arising out of any use of the tubes with other devices or elements by any purchaser of tubes or others.



17AX3  
 17BE3  
 17BF11  
 17BF11-A  
 17BW3  
 17BZ3

Page 2  
 12-70

**17BF11-A Compactron Dissimilar Double Pentode.** The 17BF11-A is a compactron containing a sharp-cutoff dual-control pentode and a power pentode. The dual-control pentode is intended for use as an FM detector and the power pentode as an audio-frequency output amplifier in television receivers.

The 17BF11-A is unilaterally interchangeable with the 17BF11 and differs only in utilizing a shorter envelope.

### GENERAL

#### MECHANICAL

Outline Drawing

Maximum Diameter .....	1.188	Inches
Minimum Diameter .....	1.062	Inches
Maximum Over-all Length .....	2.250	Inches
Maximum Seated Height .....	1.875	Inches
Minimum Seated Height .....	1.625	Inches

**17BW3 Compactron Diode.** The 17BW3 is a compactron, single heater-cathode type diode intended for service as the damping diode in the horizontal-deflection circuit of television receivers.

Except for heater characteristics and ratings, the 17BW3 is identical to the 22BW3.

### GENERAL

#### ELECTRICAL

Cathode - Coated Unipotential

Heater Characteristics and Ratings

Heater Voltage, AC or DC• .....	16.8	Volts
Heater Current■ .....	0.6 ± 0.04	Amperes
Heater Warm-up Time, Average♦ .....	11	Seconds

**17BZ3 Compactron Diode.** The 17BZ3 is a compactron, single heater-cathode type diode intended for service as the damping diode in the horizontal-deflection circuit of television receivers.

Except for heater characteristics and ratings, the 17BZ3 is identical to the 6BZ3.

### GENERAL

#### ELECTRICAL

Cathode - Coated Unipotential

Heater Characteristics and Ratings

Heater Voltage, AC or DC★ .....	16.8	Volts
Heater Current■ .....	0.45 ± 0.03	Amperes
Heater Warm-up Time, Average♦ .....	11	Seconds

### NOTES

- ★ Heater voltage for a bogey tube at  $I_f = 0.45$  amperes.
- 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.

TUBE PRODUCTS DEPARTMENT

GENERAL  ELECTRIC

Owensboro, Kentucky 42301