



# PRODUCT INFORMATION

## 13Z10

# Compactron Pentode — Gated-Beam Discriminator

The 13Z10 is a compactron containing a gated-beam discriminator and a beam pentode. The gated-beam discriminator is suitable for FM and TV limiter and discriminator applications, and the beam pentode for audio power output service.

Except for heater characteristics, the 13Z10 is identical to the 6Z10.

## GENERAL

### ELECTRICAL

Cathode - Coated Unipotential

#### Heater Characteristics and Ratings

Heater Voltage, AC or DC* . . . . .	13.2	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.
- ‡ 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.

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.

TUBE DEPARTMENT  
**GENERAL**  **ELECTRIC**  
Owensboro, Kentucky