



ELECTRONIC  
**INNOVATIONS**  
IN ACTION

TUBES

— PRODUCT INFORMATION —

# Triode-Pentode

**21LR8**

FOR TV VERTICAL-DEFLECTION OSCILLATOR  
AND AMPLIFIER APPLICATIONS

The 21LR8 is a triode-pentode containing a high-mu triode and a beam pentode. The triode is designed for service as a vertical-deflection oscillator, and the pentode as a vertical-deflection amplifier in television receivers. The 21LR8 utilizes a T-12 bulb and features a 9-pin glass button base with a 0.687-inch pin circle.

Except for heater characteristics, the 21LR8 is identical to the 6LR8.

## GENERAL

### ELECTRICAL

Cathode - Coated Unipotential

Heater Characteristics and Ratings

Heater Voltage, AC or DC *	..... 21	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.