

ELECTRONIC TUBE REFERENCE

4212E

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
TRIODE

High-power directly heated triode for substantial push-pull output service. Approximately 275 W plate dissipation and 3 kV plate capability support output approaching a kilowatt under published push-pull conditions.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 4             |
| NOMINAL HEATER      | 14 V / 6.2 A      | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                      |                        |
|----------------------------------------------------------------------|------------------------|
| SECTION1 Triode                                                      |                        |
| PLATE RESISTANCE                                                     | 1900 Ω                 |
| TRANSCONDUCTANCE                                                     | 0.008400000000000001 S |
| AMPLIFICATION FACTOR                                                 | 16                     |
| MAXIMUM PLATE VOLTAGE                                                | 3000 V                 |
| MAXIMUM PLATE DISSIPATION                                            | 275 W                  |
| MAXIMUM CATHODE CURRENT                                              | 350 mA                 |
| Explicit alternate/previous designation printed on 3C270A datasheet. |                        |

Directly heated triode. The 4212-E valve employs a molybdenum anode and hard glass bulb. SPECIFICATION. Cathode. Thoriated tungsten filament. Constant voltage type. Base. Extra large 4-pin bayonet. Dimensions. Max. ove

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1946 Standard Telephone and Cables

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1946 STANDARD TELEPHONE AND CABLES

## Section 1 · Triode

**CHARACTERISTICS**

| PARAMETER          | PUBLISHED VALUE | CONDITION / NOTE                               |
|--------------------|-----------------|------------------------------------------------|
| Mutual conductance | 8400 $\mu$ S    | Published characteristic; normalized from mA/V |

**OTHER**

| PARAMETER                    | PUBLISHED VALUE | CONDITION / NOTE              |
|------------------------------|-----------------|-------------------------------|
| Maximum direct anode current | 350 mA          | Maximum safe operating rating |

## SOURCE OPERATING CONDITIONS

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# 1947 Standard Valves

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1947 STANDARD VALVES

## Section 1 · Triode

**OTHER**

| PARAMETER                         | PUBLISHED VALUE | CONDITION / NOTE |
|-----------------------------------|-----------------|------------------|
| Maximum frequency at full ratings | 1.5 MHz         | —                |
| Push-pull power output            | 960 W           | PushPull         |

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