



## ELECTRONIC TUBE REFERENCE

# 6416

Specialized - Gauge Tube electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**

CONSTRUCTION

**GAUGE**

Rugged long-life thermocouple thermal-conductivity vacuum gauge designed for approximately 0.1 to 1000 microns pressure.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 8FS               | BASE PINS            | 8             |
| NOMINAL HEATER      | – / 600 mA        | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

**SECTION 1** Gauge

*No fixed ratings recorded.*

*Published applicable promoted ratings populated; remaining device-specific values retained as parameters.*

Thermocouple thermal-conductivity vacuum gauge for approximately 0.1 to 1000 microns; rugged long-life design.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1955 Vacuum Tube Products

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

## 1955 VACUUM TUBE PRODUCTS

## Section 1 · Gauge

| CHARACTERISTIC                  |                 |                  |
|---------------------------------|-----------------|------------------|
| PARAMETER                       | PUBLISHED VALUE | CONDITION / NOTE |
| Heater Current Normal           | 600 mA          | —                |
| Heater Resistance Cold          | 0.2 ohm         | —                |
| Heater Resistance Hot           | 0.25 ohm        | —                |
| Thermocouple Output Hard Vacuum | 10 mV           | 55-ohm load      |
| Thermocouple Output Air         | 1 mV            | 55-ohm load      |
| Speed of Response               | 15 s            | Approximate      |
| Pressure Range                  | 0.1–1000 micron | —                |

| OTHER                  |                 |                  |
|------------------------|-----------------|------------------|
| PARAMETER              | PUBLISHED VALUE | CONDITION / NOTE |
| Heater Current Maximum | 1000 mA         | —                |

## TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,  
and their source documents.

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