

SPECIFICATION NO.157-0069-00

March 30, 1977

ITEM NAME AND DESCRIPTION

Electron tube , sharp - cutoff pentode , 6EW6 type vacuum tube . Aged 54 hours . (See specification no. 154-0212-00) . Checked for pairing under specified conditions so that **the cathode-bias voltage of both tubes of a pair is within .07 volt of each other** .

TEKTRONIX PART from which check is made

154-0212-00

TEST CONDITIONS

Heater voltage, 6.3 volts DC $\pm 1\%$.
Plate voltage, +80 volts DC $\pm 1\%$.
Screen voltage, +150 volts DC $\pm 1\%$.
Cathode current , 8.0 milliamps $\pm 1\%$.

SELECTION REQUIREMENTS

Cathode-bias voltage of two tubes of a pair shall not differ by more than . 07 volts .

SELECTED PART USE

527 Oscilloscope and 132 instrument .

IDENTIFICATION

157-0069-00 Tektronix Inc. Serial numbered label attached to tubes .
Both tubes of a pair shall have the same serial number .

SPECIFICATION NO. 154-0212-00**1. ITEM NAME AND DESCRIPTION**

6EW6 ELECTRON TUBE, 7 pin miniature, sharp-cutoff pentode.
Manufactures heater rating; 6.3 volts, 400 milliamps.

2. TEKTRONIX SELECTED PART NUMBER

157-0069-00 is selected from this tube.

3. AGING**3.1 AGING CONDITIONS**

Tubes are aged on 50 socket aging racks with never less than 40 tubes inserted to avoid excessive voltage to tubes.

Heater voltage with 50 sockets loaded shall not exceed 6.3 volts nor be less than 6.0 volts. A 25 watt wire wound resistor may be used in the transformer primary circuit to obtain the specified heater output voltage.

B+ supply. A bridge rectifier, a 10 to 15 ohm wire wound resistor and a capacitor of not less than 80 mfd are used to rectify and filter the 117 volt 60 Hz line power.

Plate voltage, + 130 to +150 volts.

Both heater and B+ supplies floating from chassis.

- Plate-circuit resistor, 1 K ohm ± 10%.
- Cathode-circuit resistor, 470 ohm ± 10%.
- Grid-cathode resistor, 100 K ohm ± 10%.

3.2 AGING-CYCLE PROCEDURE

The 50 socket aging racks are placed in a portable **AGER-CYCLE** unit is pre-set to automatically control the cycle-age time.

Power is applied to tubes for 55 minutes of each hour; power is removed for 5 minutes of each hour.

Power on time, not less than 60 hours and not over 130 hours.

4. SELECTION

For selection specification on above part number, see specification for that part number.

