The 6L6G is an output pentode designed for use as a line-time base output tube in television receivers.

**PHYSICAL SPECIFICATIONS**

- **Cathode**: Coated Unipotential
- **Base**: Octal 7 pin
- **Bulb**: Glass
- **Top Cap**: Small
- **Max. overall length**: 5 17/32"
- **Max. seated height**: 5"
- **Maximum diameter**: 1 25/32"
- **Mounting position**: Any

**GENERAL ELECTRICAL DATA**

- **Heater Voltage**: 6.3 volts
- **Heater Current**: 1.4 amps

**DIRECT ELECTRODE CAPACITANCES**

(No external shield)

- **Plate to grid max.**: 1.2 μF
- **Input**: 18 μF
- **Output**: 6.5 μF

**MAXIMUM RATING (Design Centre Values)**

- **Peak plate voltage**: 8,000 volts
- **Plate supply voltage**: 1200 volts
- **Plate voltage**: 800 volts
- **Plate dissipation**: 25 watts
- **Grid No.2 supply voltage**: 600 volts
- **Grid No.2 voltage**: 400 volts
- **Grid No.2 dissipation**: 8 watts
- **Cathode current**: 200 mamps
- **Grid No.1 circuit resistance**: 500,000 ohms
- **External resistance between heater and cathode**: 20,000 ohms
- **Voltage between heater and cathode**: 100 volts

**OPERATING CHARACTERISTICS**

- **Plate voltage**: 275 volts
- **Grid No.2 voltage**: 275 volts
- **Plate current**: 51 mamps
- **Grid No.2 current**: 11 mamps
- **Grid No.1 voltage**: -9 volts
- **Transconductance**: 14,000 micromhos
- **Plate resistance**: 20,000 ohms
- **Amplification factor of Grid No.2 with respect to Grid No.1**: 15.5

**BASE DIAGRAM**

![8EW Basing Diagram]

**BASE DIAGNOSTICS**

- **Pin 1**: Grid 3
- **Pin 2**: Heater
- **Pin 3**: No connection
- **Pin 4**: Grid 2
- **Pin 5**: Grid 1
- **Pin 6**: No pin
- **Pin 7**: Heater
- **Pin 8**: Cathode
- **Top cap**: Plate

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RTMA type designation: 6CN6