

June 15, 1963

TWIN PENTODE TYPE 6HS8

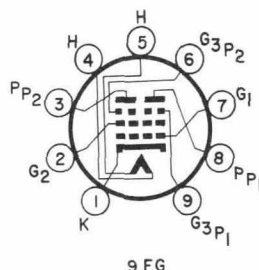
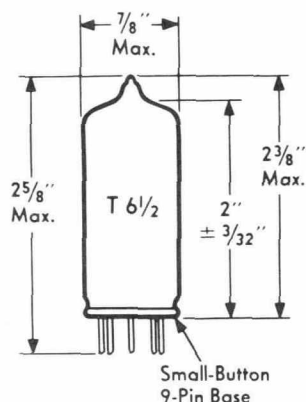
The 6HS8 is a 9-pin miniature twin pentode type designed for service as the sync separator and keyed AGC rectifier in television receivers. The units have separate plates and grids 3 and common heater cathode, grid 1 and grid 2. With suitable circuitry, voltages may be applied to grid 1 to suppress noise pulses from both the sync and AGC circuits.

ELECTRICAL

Cathode.....	Coated Unipotential Heater:
Voltage (ac or dc)	$6.3 \pm 10\%$ Volts
Current	0.30 Amperes
Direct Interelectrode Capacitances: (Unshielded)	
Grid 3 to Plate (Each Unit)	2.0 pf
Grid 1 to All Other Electrodes	6.0 pf
Grid 3 (Each Unit) to All Other Electrodes	3.6 pf
Plate (Each Unit) to All Other Electrodes	3.0 pf
Grid 3, Unit 1 to Grid 3, Unit 2 (Max.)	0.015 pf

MECHANICAL

Bulb	T-6½
Base	9-Pin Miniature (JEDEC E9-1)
Outline	6×3
Basing	9FG
Mounting Position	Any



MAXIMUM RATINGS

Design Maximum Values (Note 1)

Plate Voltage	300 max.	Volts
Grid 3 Voltage:		
Positive DC	3.0 max.	Volts
Negative DC	50 max.	Volts
Positive Peak	50 max.	Volts
Grid 2 Voltage	150 max.	Volts
Grid 1 Voltage (Negative DC)	50 max.	Volts
Plate Dissipation (Each Unit)	1.1 max.	Watts
Grid 2 Dissipation	0.75 max.	Watts
DC Cathode Current	12 max.	Ma.
Heater Voltage with respect to Cathode:		
Positive DC Component	100 max.	Volts
Positive DC and Peak	200 max.	Volts
Negative DC and Peak	200 max.	Volts

LIMITING CIRCUIT VALUES

Grid 1 Circuit Resistance	0.5 max.	Megohms
Grid 3 Circuit Resistance (Each Unit)	0.5 max.	Megohms

TYPICAL OPERATING CHARACTERISTICS

Both Units Operating

Plate Voltage	100	100	Volts
Grid 3 Voltage	-10	0	Volts
Grid 2 Voltage	67.5	67.5	Volts
Grid 1 Voltage (Note 2)	-	-	Volts
Plate Current (Each Unit)	-	2.0	Ma.
Grid 2 Current	7.0	4.4	Ma.
Cathode Current	7.1	8.5	Ma.

Each Unit Operating (Note 3)

Plate Voltage	100	100	Volts
Grid 3 Voltage	0	0	Volts
Grid 2 Voltage	67.5	67.5	Volts
Grid 1 Voltage	0	(Note 2)	Volts
Grid 3 Transconductance	-	450	μmhos
Grid 1 Transconductance	1100	-	μmhos
Plate Current	-	2.0	Ma.
Grid 3 Cutoff Voltage (Note 4)	-	-3.5	Volts
Grid 1 Cutoff Voltage (Note 4)	-	-2.3	Volts

NOTES

1. Design=Maximum ratings are limiting values of operating and environmental conditions applicable to a bogey tube of a specified type as defined by its published data, and should not be exceeded under the worse probable conditions.
2. For grid 1 current of 100 microamperes.
3. With Plate and Grid 3 of other unit grounded.
4. For Plate current of 100 microamperes.

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Receiving Tube Section

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