

## Beam Hexode

### ELECTRICAL

#### Heater Characteristics and Ratings

Voltage (AC or DC) . . . . .	6.3 ± 0.6	V
Current at 6.3 V . . . . .	0.220	A
Maximum heater-cathode voltage		
Heater negative with respect to cathode		
Peak . . . . .	200	V
Heater positive with respect to cathode		
Peak . . . . .	200	V
DC component . . . . .	100	V

#### Direct Interelectrode Capacitances (Approx.)

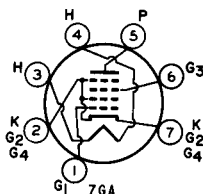
Without external shield		
Grid No.1 to plate . . . . .	0.018	pF
Input: G1 to (K + G4 + G2, G3, H) . . . . .	7.0	pF
Output: P to (K + G4 + G2, G3, H) . . . . .	3.2	pF

### MECHANICAL

Operating Position . . . . .	Any
Type of Cathode . . . . .	Coated Unipotential
Maximum Overall Length . . . . .	2-1/8 in
Maximum Seated Length . . . . .	1-7/8 in
Length, Base Seat to Bulb Top (Excluding tip) . . . . .	1-1/2 ± 3/32 in
Diameter . . . . .	0.650 to 0.750 in
Dimensional Outline (JEDEC No.5-2) . . . . .	See <i>General Section</i>
Envelope . . . . .	JEDEC T5-1/2
Base . . . . .	Small-Button Miniature 7-Pin (JEDEC No.E7-1)

#### TERMINAL DIAGRAM (Bottom View)

- Pin 1 - Grid No.1
- Pin 2 - Cathode, Grid No.2, Grid No.4
- Pin 3 - Heater
- Pin 4 - Heater
- Pin 5 - Plate
- Pin 6 - Grid No.3
- Pin 7 - Same as Pin 2



### CHARACTERISTICS

Plate Voltage . . . . .	135	275	V
Grid-No.3 Voltage . . . . .	135	135	V
Grid-No.1 Voltage . . . . .	-0.4	-0.4	V
Plate Resistance (Approx.) . . . . .	0.67	0.165	MΩ
Transconductance . . . . .	15000	15500	μmhos
Plate Current . . . . .	9	10	mA
Grid-No.3 Current . . . . .	0.25	0.17	mA
Grid-No.1 Voltage (Approx.) . . . . .	-6.2	-6.5	V
For transconductance = 100 μmhos			
Noise Figure . . . . .	5.9	5.7	dB
At 200 Mc/s			



# 6GU5

## DESIGN-MAXIMUM RATINGS

Plate Voltage. . . . .	300	V
Grid-No.3 (Screen-Grid) Voltage. . . . .	150	V
Grid-No.1 (Control-Grid) Voltage		
Negative-bias value. . . . .	50	V
Positive-bias value. . . . .	0	V
Cathode Current. . . . .	20	mA
Grid-No.3 Input. . . . .	0.15	W
Plate Dissipation. . . . .	3	W

## MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance		
For fixed-bias operation . . . . .	0.5	MΩ

