

# SYLVANIA ELECTRIC

## RTMA Registration Data

### TYPE 6CG6

#### REMOTE-CUTOFF PENTODE

#### MECHANICAL DATA

Style ..... miniature  
 Cathode ..... coated, unipotential  
 Bulb ..... T-5 1/2  
 Base ..... E7-1, Miniature Button 7-Pin  
 Outline ..... 5-2  
 Maximum Diameter ..... 3/4 inch  
 Maximum Overall Length ..... 2 1/8 inches  
 Maximum Seated Height ..... 1 7/8 inches  
 Mounting Position ..... any  
 Basing ..... 7BK-0-2

*Pin Connections:*

Pin 1 .. grid #1	Pin 5 .. plate
Pin 2 .. grid #3, internal shield	Pin 6 .. grid #2
Pin 3 .. heater	Pin 7 .. cathode
Pin 4 .. heater	

#### ELECTRICAL DATA

##### GENERAL

Direct Interelectrode Capacitances:  
*Values apply both with and without external shield<sup>(1)</sup>*

Grid #1 to Plate, maximum .....	0.008	$\mu\mu\text{f}$
Input .....	5.0	$\mu\mu\text{f}$
Output .....	5.0	$\mu\mu\text{f}$
Heater Voltage (ac or dc) .....	6.3	volts
Heater Current .....	300	milliamps

##### RATINGS -- Design Center System

Maximum Plate Voltage (dc) .....	300	volts
Maximum Grid #2 Voltage (dc) .....	150	volts
Maximum Positive Grid #1 Voltage (dc) .....	0	volts
Maximum Plate Dissipation .....	4.0	watts
Maximum Screen Dissipation .....	0.75	watts
Maximum Heater-Cathode Voltage .....	$\pm 90$	volts

##### CHARACTERISTICS

*Conditions:*

Heater Voltage (ac or dc) .....	6.3	volts
Plate Voltage (dc) .....	250	volts
Grid #3 Voltage .....	0 <sup>(2)</sup>	volts
Grid #2 Voltage (dc) .....	150	volts
Grid #1 Voltage (dc) .....	-8	volts
Plate Current (dc) .....	9.0	milliamps
Grid #2 Current (dc) .....	2.3	milliamps
Transconductance .....	2,000	micromhos
Plate Resistance .....	0.72	megohms
Grid #1 Voltage for 40 $\mu\text{mhos}$ Transconductance .....	-24	volts

(1) External Shield #316 connected to pins 2 and 7.

(2) Pin 2 connected to Pin 7 at socket.