

TRIPLE-GRID SUPER-CONTROL AMPLIFIER (TENTATIVE DATA)

HEATER VOLTAGE (A.C. or D.C.)	6.3	Volts
HEATER CURRENT	0.15	Ampere
DIRECT INTERELECTRODE CAPACITANCES: °		
Grid to Plate	0.005 max.	µmf
Input	6.5	µmf
Output	10.5	µmf
MAXIMUM OVERALL LENGTH	3-1/8"	
MAXIMUM DIAMETER	1-5/16"	
CAP	Skirted Miniature - Style B	
BASE	Small Wafer Octal 7-Pin	

Amplifier - Class A

OPERATING CONDITIONS and CHARACTERISTICS:			
Heater Voltage °	6.3	6.3	Volts
Plate Voltage	135	250 max.	Volts
Screen Voltage	67.5	100 max.	Volts
Grid Voltage (Minimum)	-3	-3	Volts
Suppressor	Connected to cathode at socket		
Plate Current	3.7	8.5	Milliamperes
Screen Current	0.9	2.0	Milliamperes
Amplification Factor (Approx.)	-	1750	
Plate Resistance (Approx.)	-	1.0	Megohm
Transconductance	1250	1750	Micromhos
Grid Voltage for transconductance = 10 micromhos	-25	-38.5	Volts

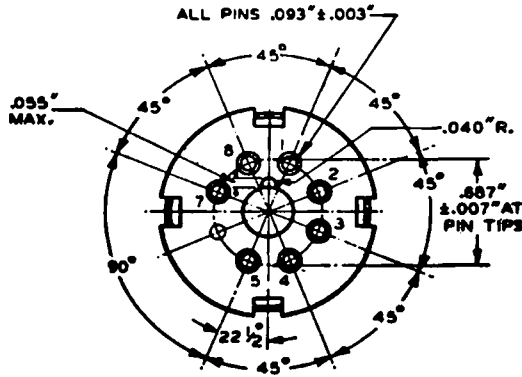
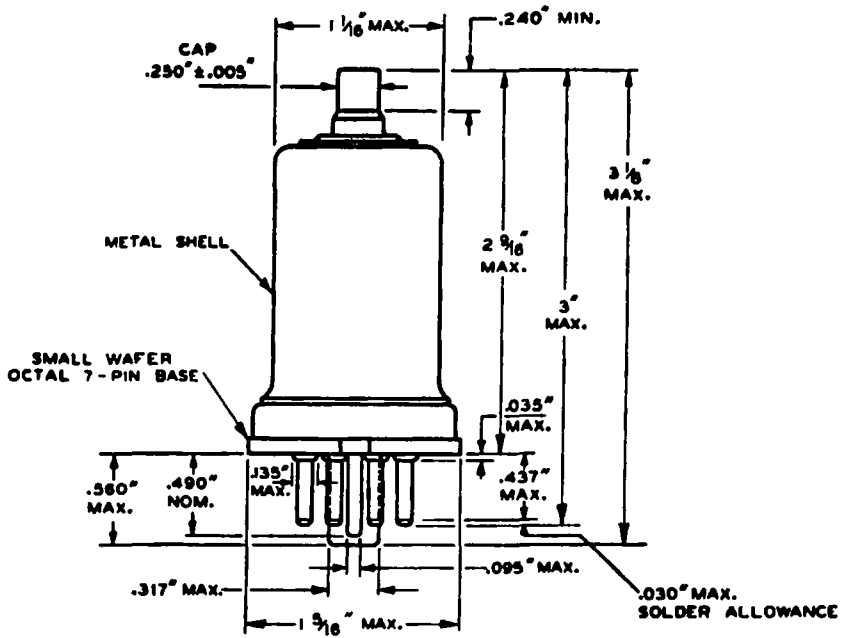
° With shell connected to cathode.

* In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

Pin Connections

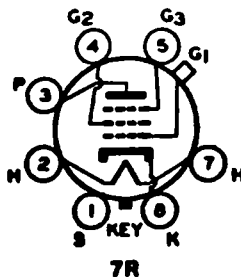
Pin 1 - Shell
 Pin 2 - Heater
 Pin 3 - Plate
 Pin 4 - Screen
 Pin 5 - Suppressor
 Pin 7 - Heater
 Pin 8 - Cathode
 Cap - Grid

Outline Drawing



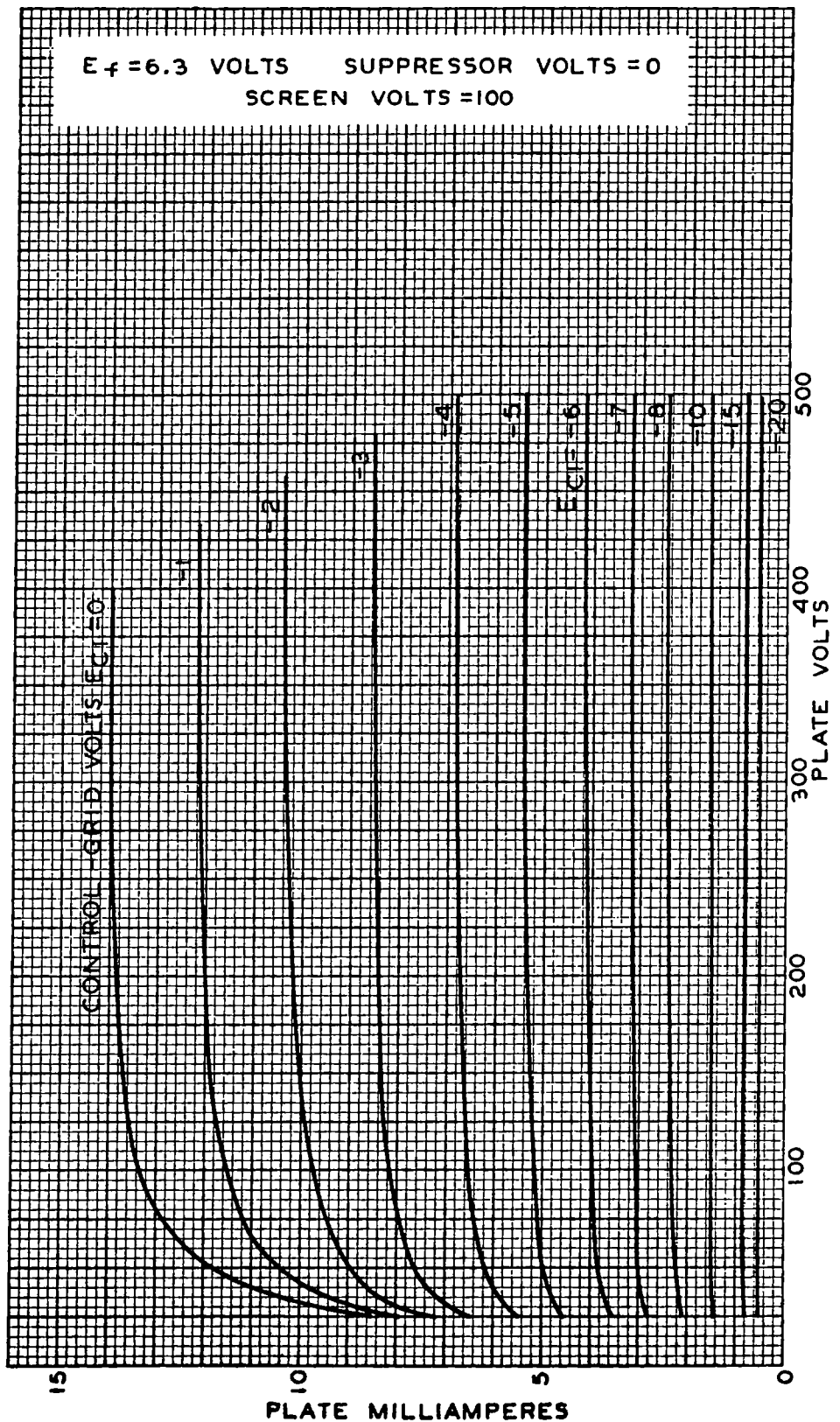
BOTTOM VIEW OF BASE

**Tube Symbol & Bottom View
of Socket Connections**



RCA-6S7

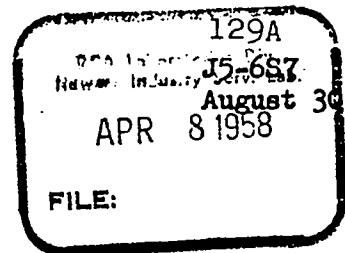
AVERAGE PLATE CHARACTERISTICS



JETEC DATA
JOINT ELECTRON TUBE ENGINEERING COUNCIL
COMMITTEE ON RECEIVING TUBES

JETEC TYPE 6S7

PENTODE



1951

MECHANICAL DATA

Coated unipotential cathode	
Outline drawing.	8-2 Bulb. MT-8
Base	B7-22 small wafer octal 7-pin
Top cap.	C1-4 miniature
Maximum diameter	1-5/16"
Maximum overall length	3-1/8"
Maximum seated height.	2-9/16"
Pin connections.	Basing 7R
Pin 1 - Shell, internal shield	Pin 5 - Grid #3
Pin 2 - Heater	Pin 7 - Heater
Pin 3 - Plate	Pin 8 - Cathode
Pin 4 - Grid #2	Top cap - Grid #1
Mounting position.	any

ELECTRICAL DATA

Direct Interelectrode Capacitances*

Grid to plate (g1 to p) max.	0.005	μf
Input: g1 to (h+k+g2+g3+S).	6.5	μf
Output: p to (h+k+g2+g3+S).	10.5	μf

*Pin 1 connected to pin 8.

Ratings

Heater voltage.	6.3	volts
Maximum plate voltage.	300	volts
Maximum grid #2 voltage.	See J5-C4	
Maximum grid #2 supply voltage	300	volts
Maximum positive dc grid #1 voltage.	0	volts
Maximum plate dissipation.	2.25	watts
Maximum grid #2 dissipation.	0.25	watt
Maximum heater-cathode voltage.	90	volts

Typical Operating Conditions and Characteristics, Class A1 Amplifier

Heater voltage.	6.3	6.3	volts
Heater current	150	150	ma
Plate voltage.	135	250	volts
Grid #2 voltage.	67.5	100	volts
Grid #1 voltage.	-3	-3	volts
Grid #3 voltage.	Pin 5 connected to pin 8 at		socket
Plate resistance (approx.)	1.0	1.0	megohm
Transconductance	1250	1750	μmhos
Plate current.	3.7	8.5	ma
Grid #2 current.	0.9	2.0	ma
Grid #1 voltage (approx.) for Gm = 10 μmhos.	-25	-38	volts

Refer to "Interpretation of Receiving Tube Ratings"