

TENTATIVE DATA SHEET
RAYTHEON G TYPE TUBE

6Y6G

TETRODE
POWER AMPLIFIER
Heater Type

Bulb: ST-14

Base: Medium Shell Octal 7-pin

DIMENSIONS

Maximum Overall Length
Maximum Diameter

4 5/8"
1 13/16"

BASING -- RMA Numbering

Pin 1-- No Connection
Pin 2-- Heater
Pin 3-- Plate
Pin 4-- Screen
Pin 5-- Grid
Pin 6-- Omitted
Pin 7-- Heater
Pin 8-- Cathode

RATINGS

Heater Voltage (a-c or d-c)	6.3	volts
Heater Current	1.25	amp
Maximum Plate Voltage	135	volts
Maximum Screen Voltage	135	volts

AMPLIFIER -- CLASS A

Plate Voltage	135	volts
Screen Voltage	135	volts
Grid Bias	-13.5	volts
Transconductance	7000	umhos
No-Signal Plate Current	58	ma
Max.-Signal Plate Current	60	ma
No-Signal Screen Current	3	ma
Load Resistance	2000	ohms
Power Output	3.6	watts
2nd Harmonic	2.5	percent
3rd Harmonic	9	percent

from RMA release #119, July 15, 1937

July 8, 1937.

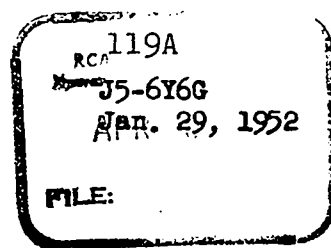
RAYTHEON ENGINEERING SERVICE

CS-1441

JETEC DATA
JOINT ELECTRON TUBE ENGINEERING COUNCIL
COMMITTEE ON RECEIVING TUBES

JETEC TYPE 6Y6G

BEAM PENTODE



MECHANICAL DATA

Coated unipotential cathode		
Outline drawing.	14-3	Bulb. ST-14
Base		B7-12 medium shell octal 7-pin
Maximum diameter		1-13/16"
Maximum overall length		4-5/8"
Maximum seated height.		4-1/16"
Pin connections.		Basing 7AC
Pin 1 - No connection		Pin 5 - Grid #1
Pin 2 - Heater		Pin 7 - Heater
Pin 3 - Plate		Pin 8 - Cathode, grid #3
Pin 4 - Grid #2		
Mounting position.		any

ELECTRICAL DATA

Ratings

Heater voltage (ac or dc).	6.3	volts
Maximum heater-cathode voltage		
Heater negative with respect to cathode	180	volts
Heater positive with respect to cathode	180	volts
Maximum plate voltage.	200	volts
Maximum grid #2 supply voltage	200	volts
Maximum grid #2 voltage.	See J5-C4	
Maximum plate dissipation.	12.5	watts
Maximum grid #2 dissipation.	1.75	watts
Maximum grid #1 circuit resistance		
Fixed bias.	0.1	megohm
Self bias	0.5	megohm

Typical Operating Conditions and Characteristics, Class A1 Amplifier

Heater voltage	6.3	6.3	volts
Heater current	1.25	1.25	amperes
Plate voltage.	135	200	volts
Grid #2 voltage.	135	135	volts
Grid #1 voltage.	-13.5	-14	volts
Peak a-f grid #1 voltage	13.5	14	volts
Plate resistance (approx.)	9300	18,300	ohms
Transconductance	7000	7100	μmhos
Zero-signal plate current.	58	61	ma
Maximum-signal plate current	60	66	ma
Zero-signal grid #2 current.	3.5	2.2	ma
Maximum-signal grid #2 current	11.5	9	ma
Load resistance.	2000	2600	ohms
Total harmonic distortion (approx.)	10	10	%
Power output:	3.6	6	watts

Refer to "Interpretation of Receiving Tube Ratings"