

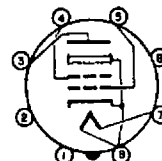
NEW NATIONAL UNION ELECTRON TUBE DATA

N.U. 6V5GT

BEAM PENTODE

MECHANICAL DATA:

Outline Drawing..... 9-11
 Bulb..... T-9
 Base..... B-8 Intermediate Shell Octal
 Maximum Diameter..... 1-5/16"
 Maximum Overall Length..... 3-5/16"
 Maximum Seated Height..... 2-3/4"

**PIN CONNECTIONS: RMA BASING DESIGNATION 6AO**

Pin #1 - No connection Pin #5 - Grid #1
 Pin #2 - No connection Pin #6 - No connection
 Pin #3 - Plate Pin #7 - Heater
 Pin #4 - Grid #2 Pin #8 - Heater, Cathode and Beam Plate
 Mounting Position..... Any

ELECTRICAL DATA:**Direct interelectrode capacitances***

Grid #1 to Plate (g₁ to p)..... 0.6 μ mf.
 Input (g₁ to k)..... 9.0 μ mf.
 Output (p to k)..... 10.0 μ mf.

*External shield #308 connected to Pin #8

Ratings

Heater Voltage (ac or dc)..... 6.3 Volts
 Heater Current..... 0.450 Ampere
 Maximum Plate Voltage..... 315 Volts
 Maximum Screen Voltage..... 285 Volts
 Maximum Plate Dissipation..... 12 Watts
 Maximum Screen Dissipation..... 2 Watts

Typical Operating Conditions and Characteristics Single Tube Amplifier Class A₁

Heater Voltage.....	6.3	6.3	6.3	Volts
Plate Voltage.....	180	250	315	Volts
Screen Voltage.....	180	250	225	Volts
Grid Voltage $\diamond$	-8.5	-12.5	-13	Volts
Plate Resistance (approximate).....	58,000	52,000	77,000	Ohms
Transconductance.....	3700	4100	3750	μ mhos
Peak A-F Signal Voltage.....	8.5	12.5	13	Volts
Zero-Signal Plate Current.....	29	45	34	Ma.
Zero-Signal Screen Current (nominal).....	3	4.5	2.2	Ma.
Maximum-Signal Plate Current.....	30	47	35	Ma.
Maximum-Signal Screen Current (nominal).....	4	7	6	Ma.
Load Resistance.....	5500	5000	8500	Ohms
Total Harmonic Distortion.....	8	8	12	%
Power Output.....	2.0	4.5	5.5	Watts

$\diamond$ The dc resistance in the grid circuit, under rated maximum conditions, for the type 6V5GT, should not exceed 0.5 megohm for self-bias operation and 0.1 megohm for fixed bias operation

Push-Pull Amplifier Class AB₁

(VALUES FOR TWO TUBES UNLESS OTHERWISE SPECIFIED)

Heater Voltage.....	6.3	6.3	Volts
Plate Voltage.....	250	285	Volts
Screen Voltage.....	250	285	Volts
Grid Voltage.....	-15	-19	Volts
Plate Resistance (approximate).....	60,000	65,000	Ohms
Transconductance.....	3750	3600	μ mhos
Peak A-F Grid to Grid Voltage.....	30	38	Volts
Zero-Signal Plate Current.....	70	70	Ma.
Zero-Signal Screen Current (nominal).....	5.0	4.0	Ma.
Maximum-Signal Plate Current.....	79	92	Ma.
Maximum-Signal Screen Current (nominal).....	13	13.5	Ma.
Effective Load Resistance (Plate to Plate).....	10,000	8,000	Ohms
Total Harmonic Distortion.....	5	3.5	%
Power Output.....	10	14	Watts

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Research Division

ORANGE NATIONAL UNION RADIO CORPORATION NEW JERSEY