from RMA release #709. Nov. 15, 1948

NATIONAL UNION ELECTRON TUBE

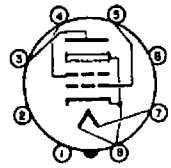
NEW DATA

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 6A0

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	(g_1 to p)	0.6	$\mu\mu$f.
Input	(g_1 to k)	9.0	$\mu\mu$f.
Output	(p to k)	10.0	$\mu\mu$f.

*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 A_1

Heater Voltage	6.3	6.3	6.3	Volts
Plate Voltage	180	250	315	Volts
Screen Voltage	180	250	225	Volts
Grid Voltage ♦	-8.5	-12.5	-13	Volts
Plate Resistance (approximate)	58,000	52,000	77,000	Ohms
Transconductance	3700	4100	3750	μmhos
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

♦ 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 AB_1

(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	μmhos
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