

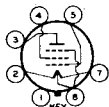
3Q5-GT/G



3Q5-GT/G

BEAM POWER AMPLIFIER

Filament	Coated		
Filament Arrangement	Series*	Parallel**	
Voltage	2.8	1.4	d-c volts
Current	0.05	0.1	amp.
Direct Interelectrode Capacitances (Approx.): ⁰			
Grid to Plate	0.6		μf
Input	8.0		μf
Output	6.5		μf
Maximum Overall Length			3-5/16"
Maximum Seated Height			2-3/4"
Maximum Diameter			1-5/16"
Bulb			T-9
Base			Intermediate Shell Octal 7-Pin
Pin 1 - No Connection			Pin 5 - Grid
Pin 2 - Filament			Pin 7 - Fil. (-, series)
Pin 3 - Plate			Pin 8 - Fil. (-, parallel)
Pin 4 - Screen			
Mounting Position			Any



BOTTOM VIEW (G-7AP)

Maximum Ratings Are Design-Center Values

AMPLIFIER

Filament Arrangement	Series*	Parallel**	
Plate Voltage	110 max.	110 max.	volts
Screen Voltage	110 max.	110 max.	volts
Total Zero-Sig. Cath. Cur. 6#max.		12 max.	ma.

→ Typical Operation and Characteristics - Class A₁ Amplifier:

Plate	90	110	85	90	110	volts
Screen	90	110	85	90	110	volts
Grid [▲]	-4.5	-6.6	-5	-4.5	-6.6	volts
Peak A-F Grid Voltage	4.5	5.1	5	4.5	5.4	volts
Plate Cur.	8.0	8.5	7.0	9.5	10	ma.
Screen Cur. (approx.)	1.0	1.1	0.8	1.3	1.4	ma.
Plate Res. (approx.)	80000	110000	70000	90000	100000	ohms
Transcond.	2000	2000	1950	2200	2200	μmhos
Load Res.	8000	8000	9000	8000	8000	ohms
Tot. Harm. Dist.	8.5	8.5	5.5	6.0	6.0	%
Max.-Sig. Power Output	230	330	250	270	400	mw.

* Filament voltage applied across the two sections in series between pins No. 2 and No. 7. Grid voltage is referred to pin No. 7.

** Filament voltage applied across the two sections in parallel between pin No. 8 and pins No. 2 and No. 7 connected together. Grid voltage is referred to pin No. 8.

For each 1.4-volt filament section. For series operation of the sections, a shunting resistor must be connected across the section between pins No. 7 and No. 8 to by-pass any cathode current in excess of the rated maximum per section. When other tubes in series-filament arrangement contribute to the filament current of the 3Q5-GT/G, an additional shunting resistor may be required between pins No. 2 and No. 7.

▲ The grid circuit resistance should not exceed 1.0 megohm for either cathode bias or fixed bias operation.

● With a peak a-f grid voltage equal to the grid bias, the power output for the 110-volt condition is: 500 mw at 10% total harmonic distortion for parallel filament operation; and 400 mw at 10% total harmonic distortion for series filament operation.

⁰ With no external shield.

Curves shown under Type 1Q5-GT/G also apply to the 3Q5-GT/G with the filaments connected in parallel.

← Indicates a change.

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RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

DATA