



3A8-GT



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DIODE-TRIODE-R-F AMPLIFIER PENTODE

Filament ^o	Coated		
Filament Arrangement	<u>Series*</u>	<u>Parallel**</u>	
Voltage	2.8	1.4	d-c volts
Current	0.05	0.1	amp.
Direct Interelectrode Capacitances: [■]			
<i>Pentode Unit</i> - Grid to Plate		0.012 max.	μ f
input		3.0	μ f
Output		10	μ f
<i>Triode Unit</i> - Grid to Plate (approx.)		2.0	μ f
Grid to Filament (approx.)		2.6	μ f
Plate to Filament (approx.)		4.2	μ f
Maximum Overall Length			3-7/16"
Maximum Seated Height			2-7/8"
Maximum Diameter			1-5/16"
Bulb			T-9
Cap			Skirted Miniature
Base			Intermed. Sh. Octal 8-Pin
Pin 1 { Fil. Midtap, Supp'r.			Pin 5 - Triode Grid
{ Internal Shield			Pin 6 - Triode Plate
Pin 2 - Filament			Pin 7 - Filament -
Pin 3 - Pentode Plate			Pin 8 - Diode Plate
Pin 4 - Pentode Screen			Cap - Pentode Grid
Mounting Position	BOTTOM VIEW (8AS)		Any

TRIODE UNIT

Plate Voltage	110 max.	volts
<i>Typical Operation and Characteristics - Class A₁ Amplifier:</i>		
Plate Voltage	90	volts
Grid Voltage ^{oo}	0	volts
Amplification Factor	65	
Plate Resistance	0.2 approx.	megohms
Transconductance	325	μ hos
Plate Current	0.2	ma.

PENTODE UNIT

Plate Voltage	110 max.	volts
Screen Voltage	110 max.	volts
<i>Typical Operation and Characteristics - Class A₁ Amplifier:</i>		
Plate Voltage	90	volts
Screen Voltage	90	volts
Grid Voltage ^{oo}	0	volts
Plate Resistance	0.8 approx.	megohms
Transconductance	750	μ hos
Plate Current	1.5	ma.
Screen Current	0.5	ma.

DIODE UNIT

The diode plate is located at the negative end of the filament, and is independent of the triode unit and of the pentode unit except for the common filament.

* Filament voltage applied across the two sections in series between pins #2 and #7.

** Filament voltage applied across the two sections in parallel between pin #1 and pins #2 and #7 connected together.

^o The filament is designed so that the two sections may be operated satisfactorily with parallel arrangement when connected directly across a 1.5-volt dry battery, or with series arrangement when connected directly across two 1.5-volt dry batteries in series.

[■] With close-fitting shield connected to negative filament terminal.

^{oo} Grid voltage for parallel filament arrangement is referred for both triode unit and pentode unit to pins #2 and #7 connected together. For series filament arrangement, grid voltage for triode unit is referred to pin #7 and for pentode unit to pin #1.

← Indicates a change.

May 1, 1941

RCA RADIODRON DIVISION
RCA MANUFACTURING COMPANY, INC.

DATA