304TH

H-F POWER TRIODE

GENERAL DATA

Electrical:

Filament, Thoriated Tungsten:			
Arrangement	*Series*	*Parallel*	
Voltage	10	5	ac or dc volts
Current	12.5	25	amp
Amplification Factor	20		
Direct Interelectrode Capacitances:			
Grid to Plate	10.2		μμf
Grid to Filament	13.5		μμf
Plate to Filament	0.7		μμf

Mechanical:

Mounting Position	Vertical, base down
Overall Length	7-7/16" ± 3/16"
Seated Length	6-11/16" ± 3/16"
Maximum Radius	1-13/16"
Cap	Beaded Small
Base	See next page
Basing Designation for BOTTOM VIEW	4BC

Pin 1 – Filament No. 2
Pin 2 – Filament No. 2
Pin 3 – Filament No. 1
Pin 4 – Filament No. 1
End Terminal – Plate
Side Cap – Grid

AF POWER AMPLIFIER & MODULATOR —Class B

Maximum Ratings, *Absolute Values:*

DC PLATE VOLTAGE	3000 max.	volts
MAX.-SIGNAL DC PLATE CURRENT*	900 max.	ma.
PLATE DISSIPATION*	300 max.	watts

Typical Operation:

Values are for two tubes

DC Plate Voltage	1500	2000	3000	volts
DC Grid Voltage (Approx.)	-65	-90	-150	volts
Peak AF Grid-to-Grid Volt.	330	350	420	volts
Zero-Signal DC Plate Cur.	267	200	134	ma.
Max.-Signal DC Plate Cur.	1066	900	667	ma.
Effective Load Resistance (plate-to-plate)	2840	4820	10200	ohms
Max.-Signal Driving Power (Approx.)	17	12	6	watts
Max.-Signal Power Output (Approx.)	1000	1200	1400	watts

* Averaged over any audio-frequency cycle of sine-wave form.

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H-F POWER TRIODE

RF POWER AMPLIFIER & OSCILLATOR—Class C Telegraphy

Key-down conditions per tube without modulation

Maximum Ratings, *Absolute Values:*

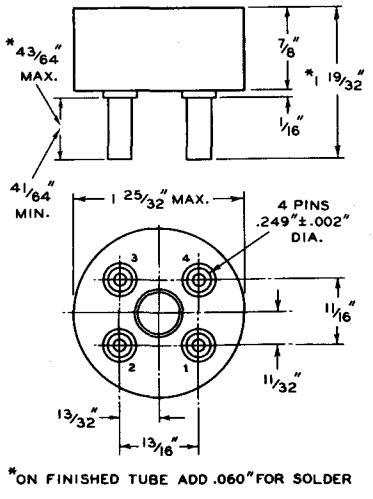
DC PLATE VOLTAGE	3000 max.	volts
DC PLATE CURRENT	900 max.	ma.
DC GRID CURRENT	170 max.	ma.
PLATE DISSIPATION	300 max.	watts

Typical Operation:

DC Plate Voltage	1500	2000	3000	volts
DC Grid Voltage	−125	−200	−300	volts
Peak RF Grid Volt. (Approx.)	250	325	395	volts
DC Plate Current	667	600	500	ma.
DC Grid Current (Approx.)	115	125	135	ma.
Driving Power (Approx.)	25	39	53	watts
Power Output (Approx.)	700	900	1200	watts

Data on operating frequencies for the 304TH are given on the sheet TRANS. TUBE RATINGS vs FREQUENCY.

304TH BASE

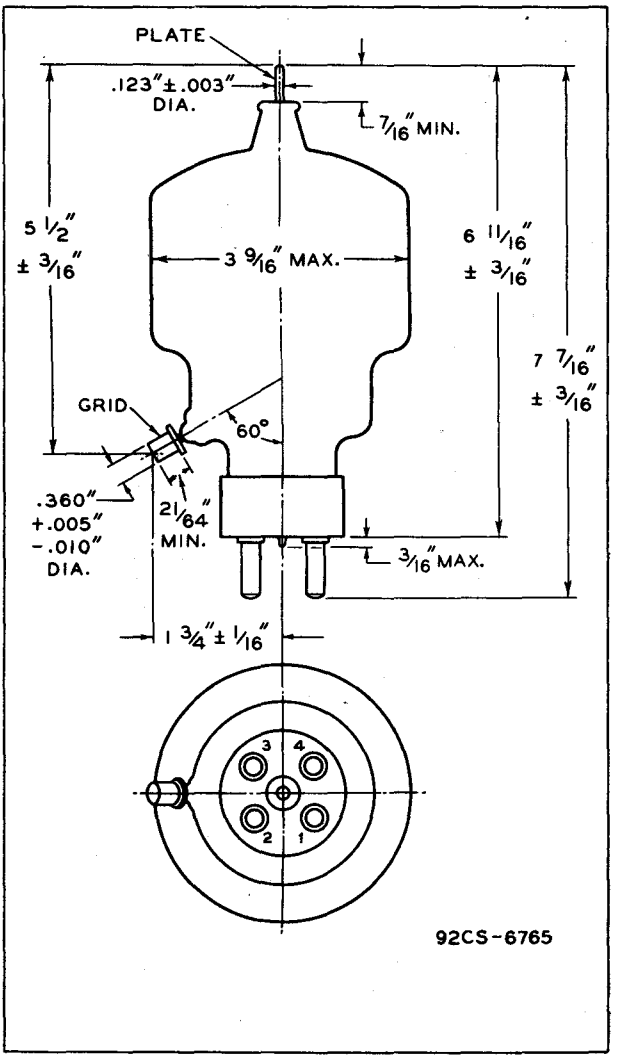


*ON FINISHED TUBE ADD .060" FOR SOLDER

92CS-6766

304TH

H-F POWER TRIODE



304TH

RCA

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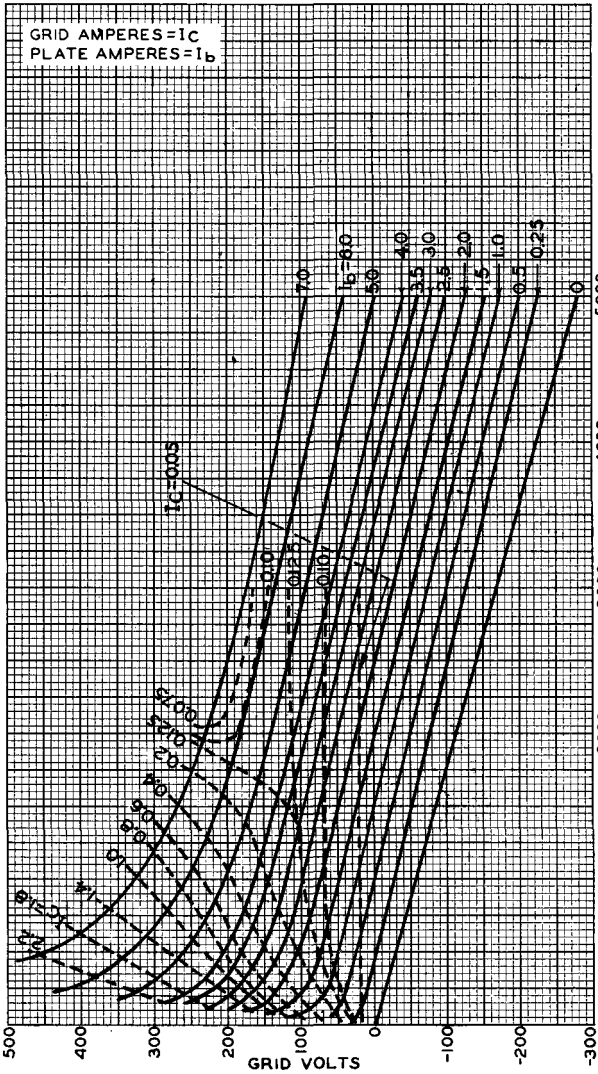
AVERAGE CONSTANT-CURRENT CHARACTERISTICS



MAY 22, 1946

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6768