



304TH

H-F POWER TRIODE

304TH

GENERAL DATA**Electrical:**

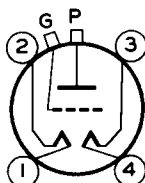
Filament, Thoriated Tungsten:

Arrangement	<u>Series</u>	<u>Parallel</u>	
Voltage.	10	5	ac or dc volts
Current.	12.5	25	amp
Amplification Factor. . .	20		
Direct Interelectrode Capacitances:			
Grid to Plate.	10.2		μmf
Grid to Filament.	13.5		μmf
Plate to Filament.	0.7		μmf

Mechanical:

Mounting Position.	Vertical, base down
Overall Length	7-7/16" $\pm$ 3/16"
Seated Length.	6-11/16" $\pm$ 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.

AUG. 15, 1946

TUBE DEPARTMENT

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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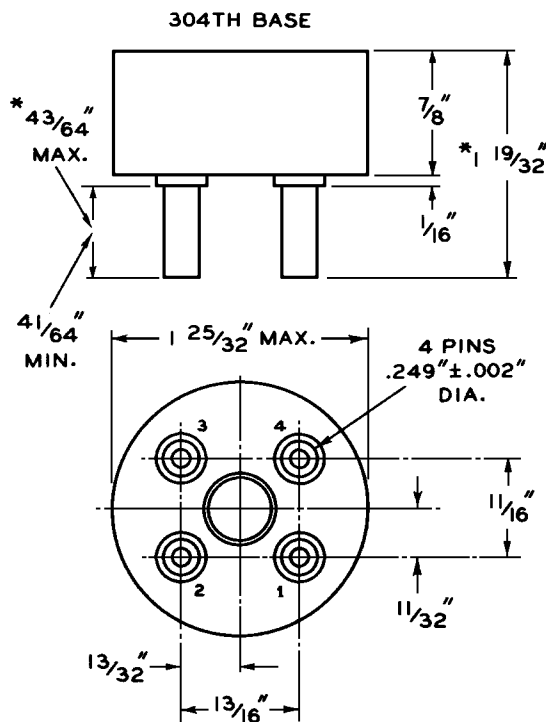
RF POWER AMPLIFIER & OSCILLATOR—Class C Telegraphy*Key-down conditions per tube without modulation***Maximum Ratings, Absolute Values:**

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.



92CS-6766

AUG. 15, 1946

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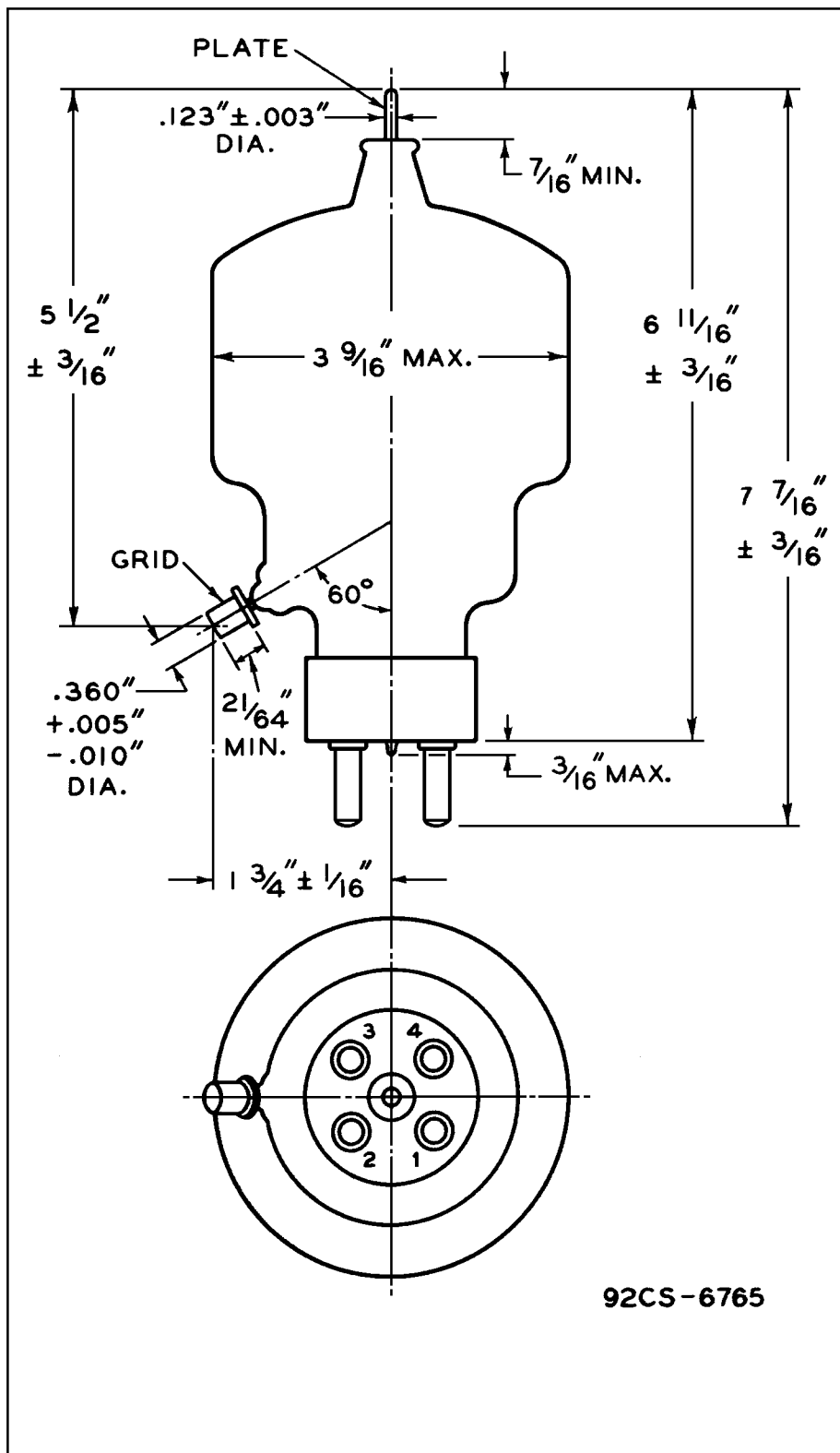
TENTATIVE DATA



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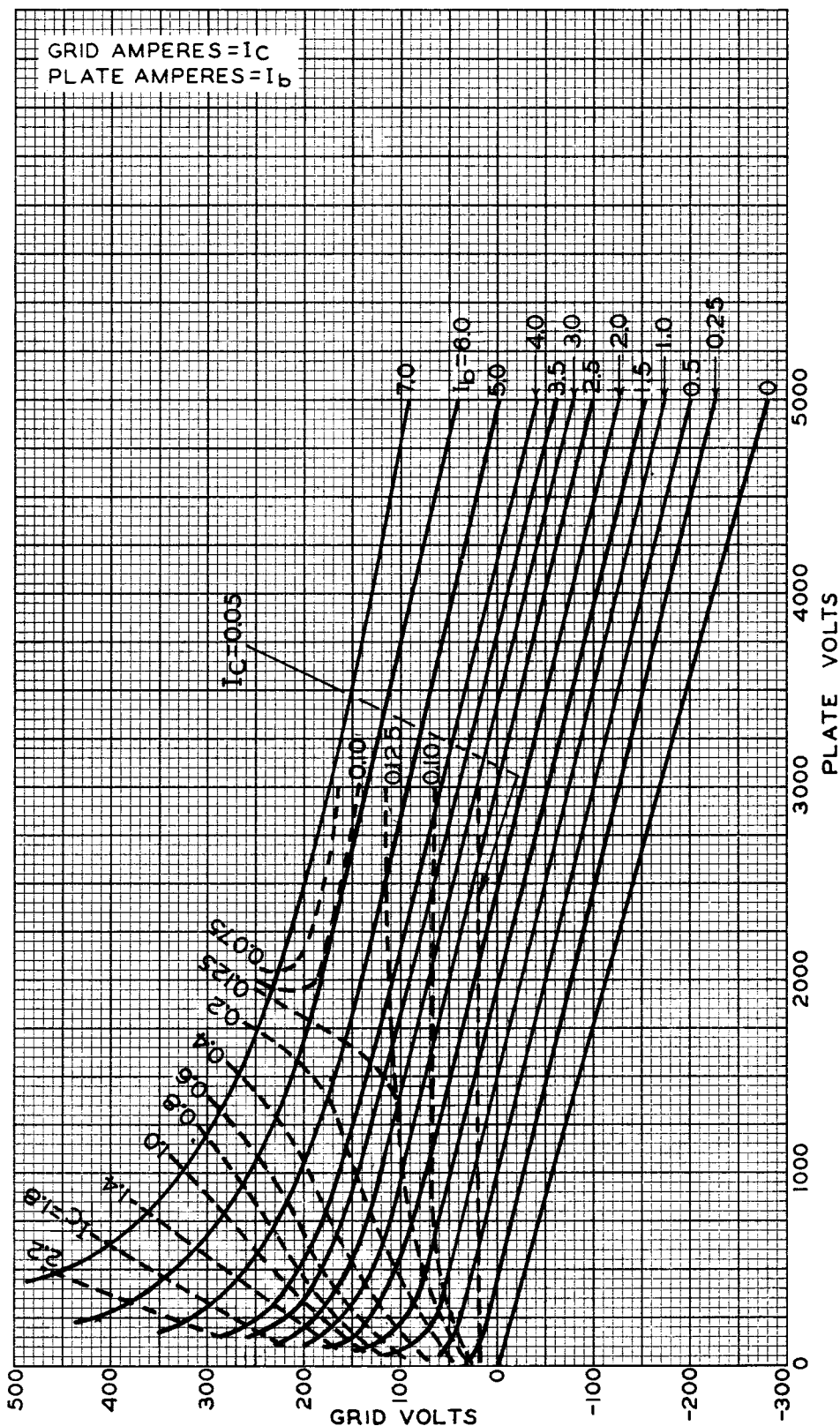


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AVERAGE CONSTANT-CURRENT CHARACTERISTICS



MAY 22, 1946

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92CM-6768