



304TH

H-F POWER TRIODE

304TH

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		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.

304TH



304TH H-F POWER TRIODE

RF POWER AMPLIFIER & OSCILLATOR—Class C Telegraphy

Key-down conditions per tube without modulation

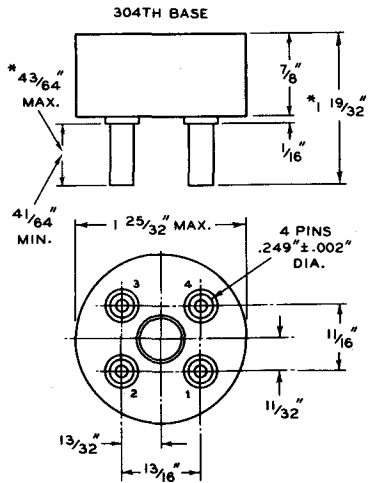
Maximum Ratings, Absolute Values:

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.



*ON FINISHED TUBE ADD .060" FOR SOLDER

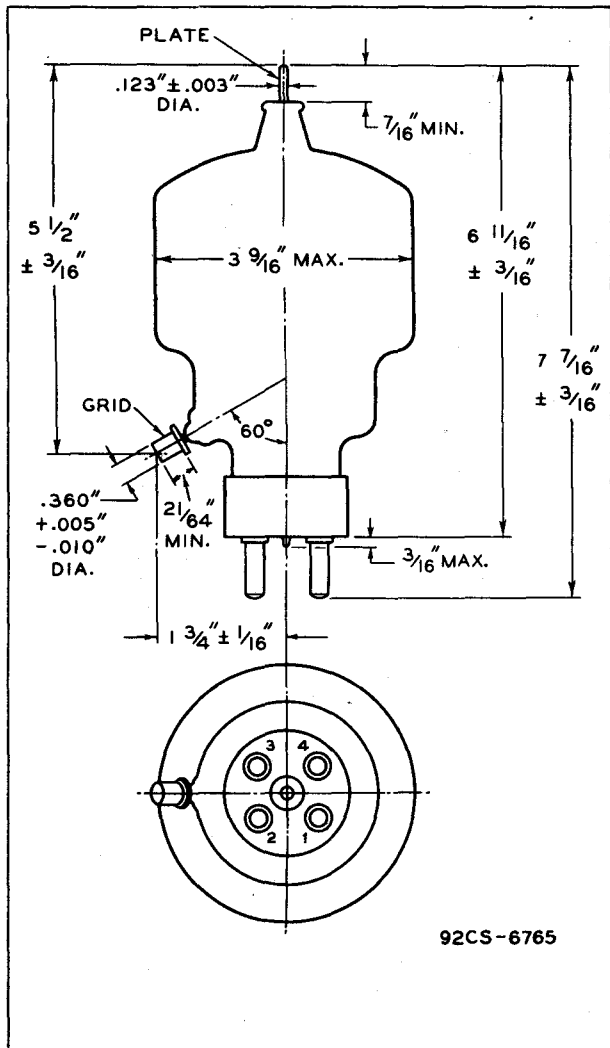
92CS-6766



304TH

H-F POWER TRIODE

304TH



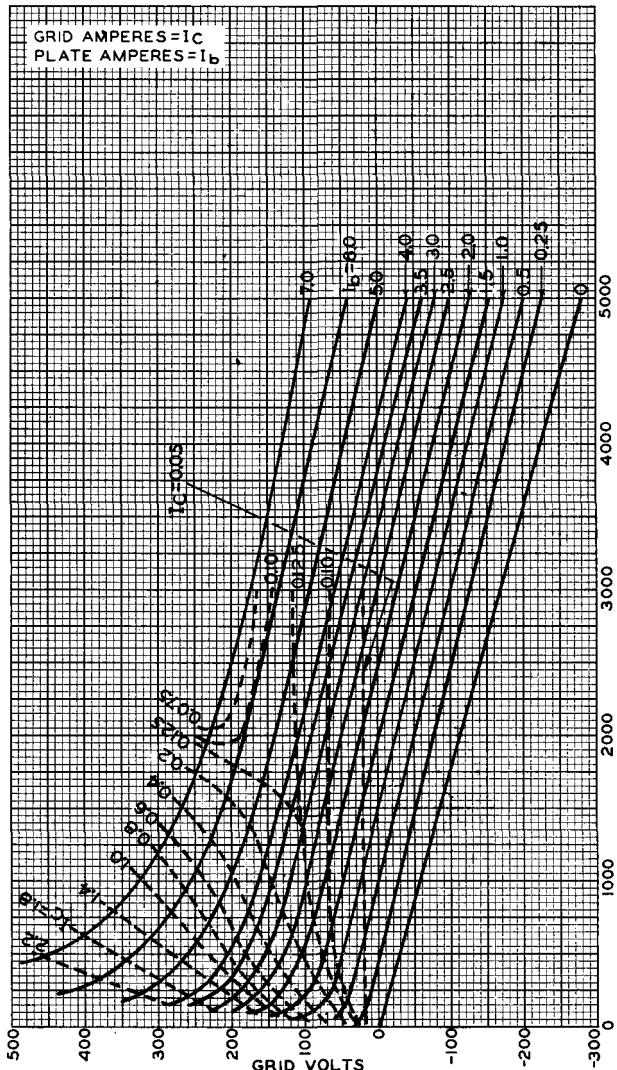
304TH



304TH

AVERAGE CONSTANT-CURRENT CHARACTERISTICS

GRID AMPERES = I_c
PLATE AMPERES = I_b



MAY 22, 1946

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6768