

RCA-1608

R-F Power Amplifier, Oscillator, Class B Modulator

RCA-1608 is a three-electrode transmitting tube of the coated filament type for use as an r-f power amplifier, oscillator and class B modulator. It is capable of giving relatively high power output at low plate voltage. In r-f service, the 1608 may be operated at maximum ratings at frequencies as high as 45 megacycles. RCA-1608 has a ceramic base.

TENTATIVE CHARACTERISTICS AND RATINGS

Filament Volts (a-c or d-c)	2.5	Grid-Plate Capacitance	9 μf
Filament Amperes	2.5	Grid-Filament Capacitance	8.5 μf
Amplification Factor	20	Plate-Filament Capacitance	3 μf

MAXIMUM RATINGS

As A-F Power Amplifier and Modulator—Class B

D-C PLATE VOLTAGE	425 max. Volts
MAX.-SIGNAL D-C PLATE CURRENT*	95 max. Milliamperes
MAX.-SIGNAL PLATE INPUT*	40 max. Watts
PLATE DISSIPATION*	20 max. Watts

As R-F Power Amplifier

	Class B Tele- phony [§]	Class C Tele- phony [§]	Class C Tele- graphy [‡]	
D-C PLATE VOLTAGE	425	350	425	Volts
D-C GRID VOLTAGE	—	-200	-200	Volts
D-C PLATE CURRENT	70			Milliamperes
D-C GRID CURRENT	—	25	25	Milliamperes
PLATE INPUT	30	30	40	Watts
PLATE DISSIPATION	20	13.5	20	Watts

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

§ Carrier conditions per tube for use with a max. modulation factor of 1.0.

‡ Key-down conditions per tube without modulation. Modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115% of the carrier conditions.

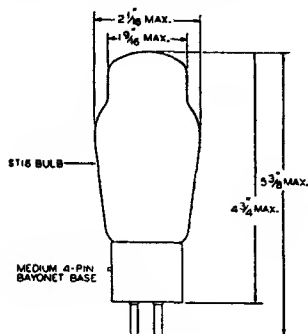
INSTALLATION AND APPLICATION

The base pins of the RCA-1608 fit the standard 4-contact socket, such as the RCA type UR-542A. The socket may be mounted to hold the tube in any position.

The plate of the 1608 shows no color when the tube is operated at the maximum plate-dissipation rating for each service.

For high-frequency operation above 45 megacycles, see page 144.

For additional information, see chapters on INSTALLATION and APPLICATION.



Top View of Socket Connections

