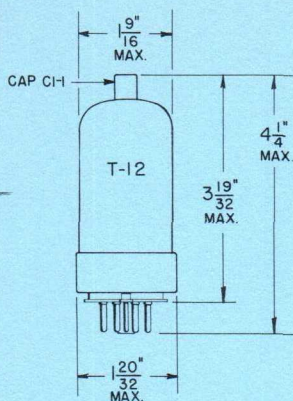


TUNG-SOL

PENTODE



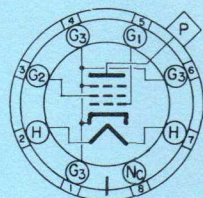
GLASS BULB

UNIPOENTIAL CATHODE

HEATER

6.3±10% VOLTS 1.6 AMP.

ANY MOUNTING POSITION



BOTTOM VIEW

8 PIN OCTAL

WITH
BARRIERS
STEPPED SLEEVE
7CK

THE 7607 IS A BEAM POWER PENTODE INTENDED FOR SERVICE AS A CLASS C RF POWER AMPLIFIER AND OSCILLATOR AND AS A LINEAR AMPLIFIER IN SINGLE SIDE BAND AMPLIFIERS AND TRANSMITTERS.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

GRID #1 TO PLATE (MAX.)	0.28	$\mu\mu\text{f}$
INPUT (G1 TO ALL)	15	$\mu\mu\text{f}$
OUTPUT (P TO ALL)	8.5	$\mu\mu\text{f}$

RATINGS

INTERPRETED ACCORDING TO ABSOLUTE MAXIMUM SYSTEM

HEATER VOLTAGE	6.3±10%	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE PEAK	300	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE DC	100	VOLTS
TOTAL DC AND PEAK	200	VOLTS

TYPICAL CHARACTERISTICS

HEATER VOLTAGE	6.3±10%	VOLTS
HEATER CURRENT	1.6	AMP.
PLATE VOLTAGE	300	VOLTS
GRID #2 VOLTAGE	225	VOLTS
GRID #1 VOLTAGE	-17	VOLTS
PLATE CURRENT	80	MA.
GRID #2 CURRENT	6.0	MA.
TRANSCONDUCTANCE	8000	μMHOS
TRIODE AMPLIFICATION FACTOR	8.0	
PLATE RESISTANCE	40	KOHMS
GRID #1 VOLTAGE FOR 1 MA PLATE CURRENT	-35	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

RADIO FREQUENCY POWER AMPLIFIER AND OSCILLATOR -CLASS C TELEGRAPHY

MAXIMUM RATINGS (ABSOLUTE VALUES)

	CCS	ICAS	
DC PLATE VOLTAGE	600	900	VOLTS
DC GRID #2 VOLTAGE	400	450	VOLTS
DC GRID VOLTAGE	-300	-350	VOLTS
DC PLATE CURRENT	150	175	MA.
DC GRID #1 CURRENT	12	12	MA.
PLATE INPUT	85	115	WATTS
PLATE DISSIPATION	23	28	WATTS
GRID #2 DISSIPATION	4	6	WATTS
COMBINED PLATE AND GRID #2 DISSIPATION	25	32	WATTS
MAXIMUM BULB TEMPERATURE	220	245	°C.

TYPICAL OPERATION

CLASS C RADIO FREQUENCY AMPLIFIER

	CCS	ICAS	
DC PLATE VOLTAGE	600	800	VOLTS
DC GRID #2 VOLTAGE	200	220	VOLTS
DC GRID VOLTAGE	-50	-50	VOLTS
PEAK R.F. GRID VOLTAGE	70	70	VOLTS
DC PLATE CURRENT	123	137	MA.
DC GRID #2 CURRENT	11	12.5	MA.
DC GRID #1 CURRENT	10	10	MA.
DRIVING POWER	0.65	0.65	WATTS
POWER OUTPUT	54	84	WATTS
GRID RESISTANCE	5,000	5,000	OHMS

RADIO FREQUENCY LINEAR POWER AMPLIFIER CLASS AB₁ (one tube)

MAXIMUM RATINGS (ABSOLUTE VALUES)

DC PLATE VOLTAGE	900	VOLTS
DC GRID #2 VOLTAGE	450	VOLTS
DC PLATE CURRENT	175	MA.
PLATE DISSIPATION	28	WATTS
GRID #2 DISSIPATION	6	WATTS
COMBINED PLATE AND GRID #2 DISSIPATION	32	WATTS

TYPICAL OPERATION

CLASS AB₁ RADIO FREQUENCY LINEAR AMPLIFIER (ONE TUBE)

DC PLATE VOLTAGE	600	800	VOLTS
DC SCREEN VOLTAGE	310	310	VOLTS
DC GRID #1 VOLTAGE	-39	-39	VOLTS
ZERO SIGNAL DC PLATE CURRENT	20	20	MA.
SINGLE TONE R.F. GRID VOLTAGE (PEAK)	39	39	VOLTS
SINGLE TONE D.C. PLATE CURRENT	120	120	MA.
SINGLE TONE D.C. GRID #2 CURRENT	12.5	12	MA.
SINGLE TONE D.C. GRID #1 CURRENT	0	0	
SINGLE TONE PLATE POWER INPUT	72	96	WATTS
SINGLE TONE POWER OUTPUT	50	68	WATTS
TWO TONE AVERAGE D.C. GRID #2 CURRENT	5	5	MA.
TWO TONE AVERAGE D.C. PLATE CURRENT	75	76	MA.