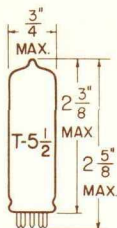


TUNG-SOL

BEAM PENTODE

MINIATURE TYPE



GLASS BULB

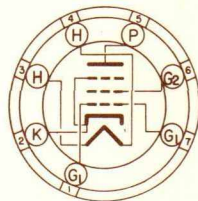
COATED UNIPOTENTIAL CATHODE

HEATER

50 VOLTS 150 MA.

AC OR DC

ANY MOUNTING POSITION


 BOTTOM VIEW
 MINIATURE BUTTON
 7 PIN BASE

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THE 50B5 IS A BEAM POWER AMPLIFIER IN THE MINIATURE CONSTRUCTION. BECAUSE OF ITS HIGH POWER SENSITIVITY AT LOW PLATE-SCREEN VOLTAGE, IT IS PARTICULARLY ADAPTABLE TO AC/DC RECEIVER APPLICATIONS.

DIRECT INTERELECTRODE CAPACITANCES *

GRID TO PLATE: (G ₁ TO P)	0.6	μμf
INPUT: G ₁ TO (H+K+G ₂ +G ₃)	13.0	μμf
OUTPUT: P TO (H+K+G ₂ +G ₃)	8.5	μμf

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	50	VOLTS
MAXIMUM PLATE VOLTAGE	135	VOLTS
MAXIMUM GRID #2 VOLTAGE	117	VOLTS
MAXIMUM PLATE DISSIPATION	6.0 →	WATTS
MAXIMUM GRID #2 DISSIPATION	1.25	WATTS
MAXIMUM POSITIVE GRID #1 VOLTAGE*	0	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE: ←		
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		
DC	100	VOLTS
TOTAL DC AND PEAK	200	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE		
CATHODE BIAS	0.5	MEGOHM
FIXED BIAS	0.1	MEGOHM
MAXIMUM BULB TEMPERATURE (AT HOTTEST POINT)	220 →	°C

* INDICATES AN ADDITION.

→ INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

HEATER VOLTAGE	50	VOLTS
HEATER CURRENT	150	MA.
PLATE VOLTAGE	120 ←	VOLTS
GRID #2 VOLTAGE	110	VOLTS
GRID #4 VOLTAGE	-8 ←	VOLTS
PEAK AF GRID #1 VOLTAGE	8 ←	VOLTS
PLATE RESISTANCE (APPROX.)	10 000	OHMS
TRANSCONDUCTANCE	7 500	μMHOS
ZERO-SIGNAL PLATE CURRENT	49	MA.
MAXIMUM-SIGNAL PLATE CURRENT	50	MA.
ZERO-SIGNAL GRID #2 CURRENT	4	MA.
MAXIMUM-SIGNAL GRID #2 CURRENT	8.5	MA.
LOAD RESISTANCE	2 500	OHMS
TOTAL HARMONIC DISTORTION (APPROX.)	10	PERCENT
MAXIMUM SIGNAL POWER OUTPUT	2.3	WATTS

ALL ELECTRICAL DATA EXCEPT HEATER CHARACTERISTICS FOR TYPE 50B5 ARE IDENTICAL WITH THOSE OF TYPES 12C5, 12CU5, 17C5, 25C5, AND 50C5.

