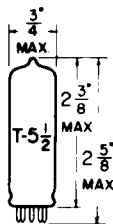


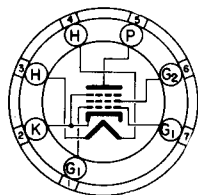
TUNG-SOL**PENTODE**
MINIATURE TYPE**GLASS BULB**

UNIPOTENTIAL CATHODE

HEATER

6.3±10% VOLTS 0.8 AMP.
AC OR DC

ANY MOUNTING POSITION

**BOTTOM VIEW**SMALL-BUTTON MINIATURE
7 PIN BASE

THE 6DS5 IS A BEAM POWER PENTODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS INTENDED FOR USE PRIMARILY IN THE AUDIO OUTPUT STAGES OF TELEVISION AND RADIO RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.
WITHOUT EXTERNAL SHIELD

GRID #1 TO PLATE	0.19	$\mu\mu\text{f}$
GRID #1 TO CATHODE & GRID #3, HEATER & GRID #2	9.5	$\mu\mu\text{f}$
PLATE TO CATHODE & GRID #3, HEATER & GRID #2	6.3	$\mu\mu\text{f}$

→ RATINGSINTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM
CLASS A₁ AMPLIFIER

HEATER VOLTAGE	6.3±10%	VOLTS
MAXIMUM PLATE VOLTAGE	275	VOLTS
MAXIMUM GRID #2 (SCREEN-GRID) VOLTAGE	275	VOLTS
MAXIMUM GRID #1 (CONTROL-GRID) VOLTAGE:		
POSITIVE BIAS VALUE	0	VOLT
MAXIMUM PLATE DISSIPATION	9	WATTS
MAXIMUM GRID #2 INPUT	2.2	WATTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:		
HEATER POSITIVE WITH RESPECT TO CATHODE	200 ^A	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE	200	VOLTS
MAXIMUM BULB TEMPERATURE (AT HOTTEST POINT ON BULB SURFACE)	250	°C

^ATHE DC COMPONENT MUST NOT EXCEED 100 VOLTS.**TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS**
CATHODE-BIAS OPERATION

HEATER VOLTAGE	6.3±10%		VOLTS
HEATER CURRENT	0.8		AMP.
PLATE SUPPLY VOLTAGE	200	250	VOLTS
GRID #2 VOLTAGE	200	200	VOLTS
CATHODE-BIAS RESISTOR	180	270	OHMS
PEAK AF GRID-NO.1 VOLTAGE	7.5	9.2	VOLTS
ZERO-SIGNAL PLATE CURRENT	34.5	27	MA.
MAX.-SIGNAL PLATE CURRENT	32.5	25	MA.
ZERO-SIGNAL GRID #2 CURRENT	3.5	3	MA.
MAX.-SIGNAL GRID #2 CURRENT	9	9	MA.
PLATE RESISTANCE (APPROX.)	28 000	28 000	OHMS
TRANSCONDUCTANCE	6 000	5 800	μMHOS
TOTAL HARMONIC DISTORTION	10	10	PERCENT
LOAD RESISTANCE	6 000	8 000	OHMS
MAX.-SIGNAL POWER OUTPUT	2.8	3.6	WATTS

→ INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS - CONT'D.

FIXED-BIAS OPERATION

HEATER VOLTAGE	6.3±10%		VOLTS
HEATER CURRENT	0.8		AMP.
PLATE VOLTAGE	200	250	VOLTS
GRID #2 VOLTAGE	200	200	VOLTS
GRID #1 (CONTROL-GRID) VOLTAGE	-7.5	-8.5	VOLTS
PEAK AF GRID #1 VOLTAGE	7.5	8.5	VOLTS
ZERO-SIGNAL PLATE CURRENT	35	29	MA.
MAX.-SIGNAL PLATE CURRENT	36	32	MA.
ZERO-SIGNAL GRID #2 CURRENT	3	3	MA.
MAX.-SIGNAL GRID #2 CURRENT	9	10	MA.
PLATE RESISTANCE (APPROX.)	28 000	28 000	OHMS
TRANSCONDUCTANCE	6 000	5 800	μMHOS
LOAD RESISTANCE	6 000	8 000	OHMS
TOTAL HARMONIC DISTORTION	9	10	PERCENT
MAX.-SIGNAL POWER OUTPUT	3	3.8	WATTS

MAXIMUM CIRCUIT VALUES

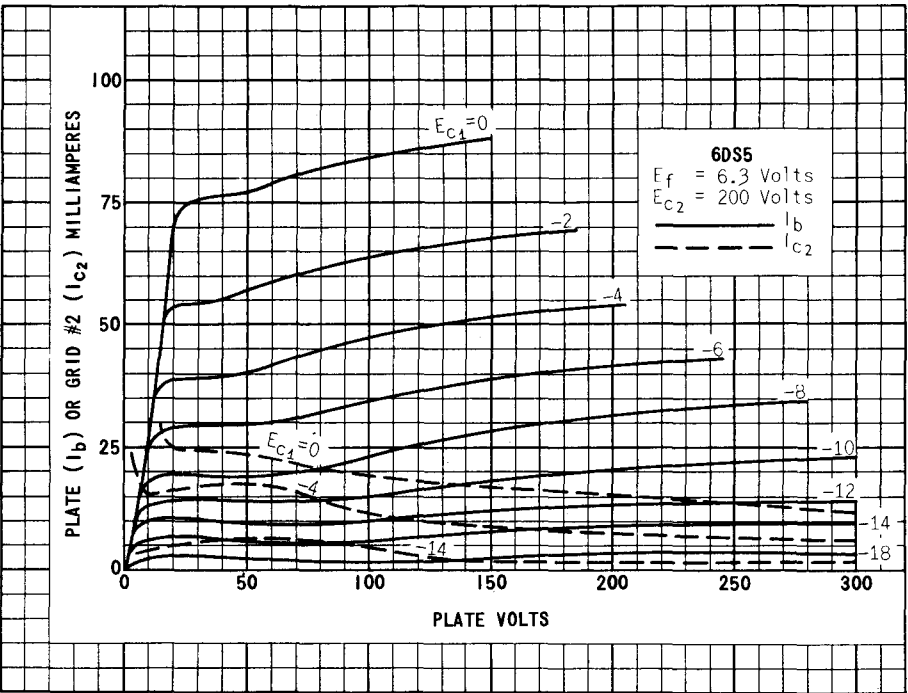
GRID #1 CIRCUIT RESISTANCE:

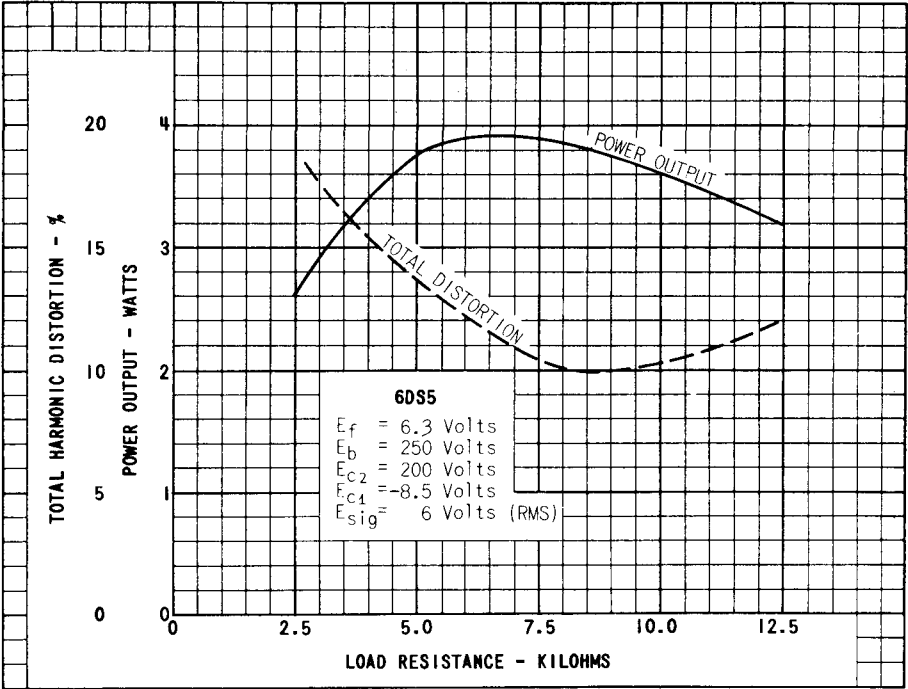
FOR FIXED-BIAS OPERATION

0.1 MEGOHM

FOR CATHODE-BIAS OPERATION

1.0 MEGOHM





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