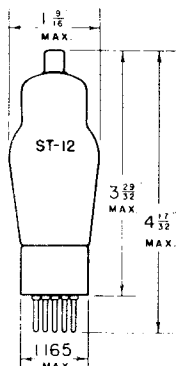


TUNG-SOL


**REMOTE CUT - OFF
PENTODE AMPLIFIER**

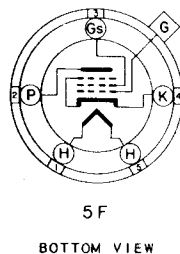
UNIPOTENTIAL CATHODE

HEATER

 6.3 VOLTS 0.3 AMPERE
AC OR DC

GLASS BULB

SMALL 5 PIN BASE



BOTTOM VIEW

THE TUNG-SOL 39/44 IS DESIGNED FOR USE AS AN RF AMPLIFIER OR MIXER
IN AC AND STORAGE BATTERY OPERATED SUPERHETERODYNE RECEIVERS.

OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A AMPLIFIER

PLATE VOLTAGE	90	180	250 ^{MAX.}	VOLTS
SCREEN VOLTAGE ^{MAX.}	90	90	90	VOLTS
CONTROL GRID VOLTAGE ^{MIN. A}	-3	-3	-3	VOLTS
PLATE CURRENT	5.6	5.8	5.8	MA.
SCREEN CURRENT	1.6	1.4	1.4	MA.
PLATE RESISTANCE	0.375	0.75	1.0	MEGOHM
TRANSCONDUCTANCE	960	1000	1050	μ MHOS
AMPLIFICATION FACTOR	360	750	1050	
CONTROL GRID VOLTAGE	-42.5	-42.5	-42.5	VOLTS

FOR TRANSCONDUCTANCE = 2 μ MHOS^A THE DC RESISTANCE IN THE GRID CIRCUIT SHOULD NOT EXCEED 3 MEGOHMS.

AS MIXER IN SUPERHETERODYNE CIRCUIT

PLATE VOLTAGE	90	180	250 ^{MAX.}	VOLTS
SCREEN VOLTAGE ^{MAX.}	90	90	90	VOLTS
CONTROL GRID VOLTAGE	-7	-7	-7	VOLTS

THIS GRID BIAS IS MINIMUM FOR AN OSCILLATOR PEAK VOLTAGE OF 6 VOLTS.

DIRECT INTERELECTRODE CAPACITANCES

CONTROL GRID TO CATHODE	3.5	μ f
PLATE TO CATHODE	10	μ f
CONTROL GRID TO PLATE ^S	.007 ^{MAX.}	μ f

^S WITH SHIELDPLATE
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