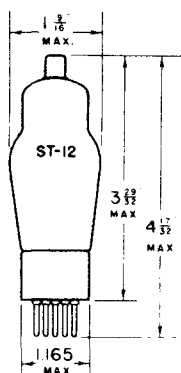


TUNG-SOL



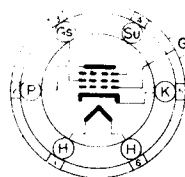
TRIPLE GRID
DETECTOR AMPLIFIER

UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.3 AMPERE
AC OR DC

GLASS BULB



6F

BOTTOM VIEW

SMALL 6 PIN BASE

THE TUNG-SOL 77 IS A TRIPLE GRID GENERAL PURPOSE DETECTOR AMPLIFIER.

RATINGS

MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM SCREEN SUPPLY VOLTAGE	300	VOLTS
MAXIMUM SCREEN VOLTAGE	100	VOLTS
MINIMUM EXTERNAL GRID BIAS VOLTAGE	0	
MAXIMUM PLATE DISSIPATION	.75	WATT
MAXIMUM SCREEN DISSIPATION	.10	WATT

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

PLATE VOLTAGE	100	250	VOLTS
SCREEN VOLTAGE	60	100	VOLTS
CONTROL GRID VOLTAGE	-1.5	-3	VOLTS
GRID CIRCUIT RESISTANCE ^{MAX.}	1	1	MEG OHM
SUPPRESSOR GRID	CONNECTED TO CATHODE AT SOCKET		
PLATE CURRENT	1.7	2.3	MA.
SCREEN CURRENT	0.4	0.5	MA.
PLATE RESISTANCE ^{APPROX.}	.6	1.0 ^{MIN.}	MEG OHM
TRANSCONDUCTANCE	1100	1250	μMHOS
CONTROL GRID VOLTAGE	-5.5	-7.5	VOLTS
FOR CATHODE CURRENT CUT-OFF			

CONTINUED NEXT PAGE

TUNG-SOL

BIASED DETECTOR

PLATE SUPPLY VOLTAGE	100	100	250	VOLTS
SCREEN SUPPLY VOLTAGE	16	100	100	VOLTS
PLATE RESISTOR	1	1	0.5	MEGOHM
SCREEN RESISTOR	0	2	0	MEGOHMS
CATHODE SELF BIASING RESISTOR	30 000	25 000	10 000	OHMS
SUPPRESSOR GRID	CONNECTED TO CATHODE AT SOCKET			

DIRECT INTERELECTRODE CAPACITANCES

CONTROL GRID TO CATHODE	4.7	$\mu\mu\text{f}$
PLATE TO CATHODE	11	$\mu\mu\text{f}$
CONTROL GRID TO PLATE ⁵	0.007 ^{MAX.}	$\mu\mu\text{f}$

⁵ MEASURED WITH AN EXTERNAL SHIELD. THE INTERNAL SHIELD WITHIN THE DOME IS CONNECTED INTERNALLY TO THE SCREEN GRID (PIN #3).

