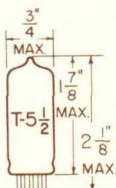


TUNG-SOL

PENTODE
MINIATURE TYPE

COATED FILAMENT



GLASS BULB

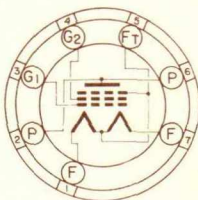
SERIES FILAMENT
 E_f APPLIED BETWEEN
 PINS 1 & 7
 E_{g1} REFERRED TO PIN 1

2.8 VOLTS
 50 MA.

PARALLEL FILAMENT
 E_f APPLIED BETWEEN
 PIN 5 AND PINS 1 &
 7 TIED TOGETHER
 E_{g1} REFERRED TO -F

1.4 VOLTS
 100 MA.

DC



BOTTOM VIEW
 MINIATURE BUTTON
 7 PIN BASE

A SHUNTING RESISTOR MUST BE CONNECTED BETWEEN PINS 1 AND 5 FOR SERIES-FILAMENT OPERATION TO BY-PASS ANY CATHODE CURRENT IN EXCESS OF THE 6 MA. RATED MAXIMUM PER SECTION. AN ADDITIONAL SHUNTING RESISTOR MAY BE NECESSARY BETWEEN PINS 1 AND 7 IF OTHER TUBES USED IN SERIES-FILAMENT ARRANGEMENT CONTRIBUTE TO THE FILAMENT CURRENT OF THE 3Q4.

ANY MOUNTING POSITION

THE 3Q4 IS A FILAMENTARY TYPE POWER OUTPUT PENTODE IN THE MINIATURE CONSTRUCTION. IT IS CHARACTERIZED BY ECONOMY OF FILAMENT POWER AND HIGH POWER SENSITIVITY ADAPTING IT TO USE IN THE "3-WAY" OPERATED PORTABLE RECEIVERS.

RATINGS

INTERPRETED ACCORDING TO DESIGN-MAXIMUM SYSTEM

	SERIES FILAMENT	PARALLEL FILAMENT	
FILAMENT VOLTAGE	2.8	1.4	VOLTS
MAXIMUM PLATE VOLTAGE	90	90	VOLTS
MAXIMUM GRID #2 VOLTAGE	90	90	VOLTS
MAXIMUM CATHODE CURRENT	6 ^A	6 ^A ←	MA.

^A FOR EACH 1.4 VOLT FILAMENT SECTION.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

FILAMENT VOLTAGE	2.8	1.4	1.4	VOLTS
FILAMENT CURRENT	50	100	100	MA.
PLATE VOLTAGE	90	85	90	VOLTS
GRID #2 VOLTAGE	90	85	90	VOLTS
GRID #1 VOLTAGE	-4.5	-5	-4.5	VOLTS
PEAK AF SIGNAL VOLTAGE	4.5	5	4.5	VOLTS
ZERO-SIGNAL PLATE CURRENT	7.7	6.9	9.5	MA.
ZERO-SIGNAL GRID #2 CURRENT (NOMINAL)	1.7	1.5	2.1	MA.
PLATE RESISTANCE (APPROX.)	0.12	0.12	0.1	MEGOHM
TRANSCONDUCTANCE	2 000	1 975	2 150	μMHOS
LOAD RESISTANCE	10 000	10 000	10 000	OHMS
TOTAL HARMONIC DISTORTION	7	10	7	PERCENT
POWER OUTPUT	240	250	270	MW

→ INDICATES A CHANGE.

