

TUNG-SOL

DOUBLE TRIODE

MINIATURE TYPE

COATED UNIPOTENTIAL CATHODE

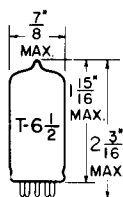
HEATER

SERIES
12.6 VOLTS
225 MA.

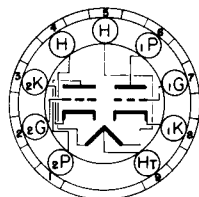
PARALLEL
6.3 VOLTS
450 MA.

AC OR DC

FOR 12.6 VOLT OPERATION APPLY HEATER VOLTAGE BETWEEN PINS #4 AND #5. FOR 6.3 VOLT OPERATION APPLY HEATER VOLTAGE BETWEEN PIN #9 AND PINS #4 AND #5 CONNECTED TOGETHER.



GLASS BULB



BOTTOM VIEW
MINIATURE BUTTON
9 PIN BASE

9A

ANY MOUNTING POSITION

THE 12AZ7 COMBINES TWO INDEPENDENT MEDIUM-MU TRIODES IN THE 9 PIN MINIATURE CONSTRUCTION. IT IS ADAPTABLE TO APPLICATION EITHER AS AN AF AMPLIFIER OR AS COMBINED OSCILLATOR AND MIXER.

DIRECT INTERELECTRODE CAPACITANCES ←

	WITHOUT SHIELD	WITH SHIELD #315 ^A	
GRID TO PLATE: (G TO P) EACH SECTION	2.0	1.9	μuf
INPUT: G TO (H+K) EACH SECTION	2.6 -	2.8 -	μuf
OUTPUT: P TO (H+K) SECTION #1	0.44 -	1.4 -	μuf
SECTION #2	0.36	1.6	μuf

^A WITH INTERNAL SHIELD #315 CONNECTED TO CATHODE OF SECTION UNDER TEST.

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

EACH TRIODE UNIT

HEATER VOLTAGE	12.6	6.3	VOLTS
MAXIMUM PLATE VOLTAGE	300		VOLTS
MAXIMUM NEGATIVE DC GRID VOLTAGE	-50		VOLTS
MAXIMUM PLATE DISSIPATION	2.5		WATTS

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TUNG-SOL

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RATINGS -CONT'D.

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

EACH TRIODE UNIT

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-CIRCUIT RESISTANCE:*

FOR CATHODE-BIAS OPERATION

1.0

MEGOHMS

FOR FIXED BIAS OPERATION

0.25

MEGOHMS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER - EACH TRIODE UNIT

HEATER VOLTAGE	6.3	12.6	6.3	12.6	VOLTS
HEATER CURRENT	450	225	450	225	MA.
PLATE VOLTAGE		100		250	VOLTS
CATHODE BIAS RESISTOR		270		200	OHMS
PLATE CURRENT		3.7		10	MA.
PLATE RESISTANCE	15 000		10 900		OHMS
TRANSCONDUCTANCE	4 000		5 500		μMHOS
AMPLIFICATION FACTOR		60		60	
GRID VOLTAGE (APPROX.)					
FOR I _b = 10 μA.		-5		-12	VOLTS

* INDICATES AN ADDITION.

→ INDICATES A CHANGE.