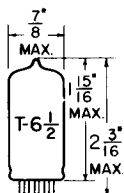


TUNG-SOL

DOUBLE TRIODE

MINIATURE TYPE



GLASS BULB

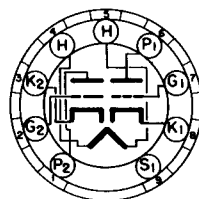
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.4 AMP.

AC OR DC

ANY MOUNTING POSITION


BOTTOM VIEW
 MINIATURE BUTTON
 9 PIN BASE

9AJ

THE 6BZ7 IS A MEDIUM MU DOUBLE TRIODE USING THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR SERVICE IN LOW NOISE VHF CASCODE AMPLIFIER APPLICATIONS.

→ DIRECT INTERELECTRODE CAPACITANCES

WITH EXTERNAL SHIELD #315

	TRIODE UNIT #1	TRIODE UNIT #2	
GRID TO PLATE: (G TO P)	1.2	1.2	μf
PLATE TO CATHODE: (P TO K)	0.12	0.12	μf
HEATER TO CATHODE: (H TO K)	2.6	2.6	μf
#1 INPUT: G TO (H+K+I.S.)	2.6	---	μf
#2 INPUT: K TO (H+G+I.S.)*	---	5.0	μf
#1 OUTPUT: P TO (H+K+I.S.)	1.2	---	μf
#2 OUTPUT: P TO (H+G+I.S.)*	---	2.2	μf
#1 PLATE TO #2 PLATE: (1P TO 2P) (MAX.)		0.010	μf
#2 PLATE TO #1 PLATE & GRID: (2P TO 1P+1G) (MAX.)		0.024	μf

* READ AS GROUNDED GRID AMPLIFIER.

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM
EACH TRIODE UNIT

HEATER VOLTAGE	6.3	VOLTS
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 PLATE VOLTAGE **	250	VOLTS
MAXIMUM PLATE DISSIPATION	2	WATTS
MAXIMUM CATHODE CURRENT	20	MA.
MAXIMUM GRID CIRCUIT RESISTANCE	0.5	MEG OHM

** THIS RATING MAY BE AS HIGH AS 300 VOLTS UNDER CUTOFF CONDITIONS, WHEN THE TUBE IS USED AS A CASCODE AMPLIFIER AND THE TWO SECTIONS ARE CONNECTED IN SERIES.

→ INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICSCLASS A_1 AMPLIFIER - EACH TRIODE UNIT

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.4	AMP.
PLATE VOLTAGE	150	VOLTS
CATHODE BIAS RESISTOR	220	OHMS
AMPLIFICATION FACTOR	36	
PLATE RESISTANCE	→ 5 300	OHMS
TRANSCONDUCTANCE	6 800	μ MHOS
PLATE CURRENT	10	MA.
GRID VOLTAGE FOR $I_b = 100 \mu A$ (APPROX.)	→ -7	VOLTS