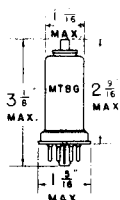


TUNG-SOL



METAL TUBE
SMALL WAFER
8 PIN OCTAL BASE
6K8

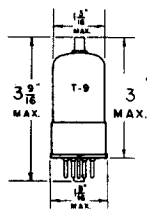
TRIODE HEXODE CONVERTER

UNIPOTENTIAL CATHODE

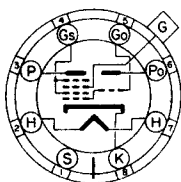
HEATER

6.3 VOLTS 0.3 AMPERE

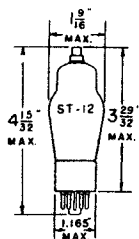
AC OR DC



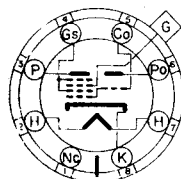
GLASS BULB
8 PIN OCTAL BASE
WITH METAL SHELL
6K8GT



8 K
6K8, 6K8GT



GLASS BULB
SMALL 8 PIN OCTAL BASE
6K8G



G-8K
6K8G

THE TUNG-SOL 6K8, 6K8G AND 6K8GT CONSIST OF A TRIODE OSCILLATOR AND A HEXODE MIXER IN A COMMON ENVELOPE. THE PHYSICAL DESIGN OF THESE TUBES REDUCES INTERACTION BETWEEN THE OSCILLATOR AND MIXER SECTIONS AND MAKES FOR STABLE OPERATION IN SUPERHETERODYNE RECEIVERS ON THE HIGH FREQUENCIES AS WELL AS THE BROADCAST BAND.

RATINGS

MAXIMUM HEXODE PLATE (P) VOLTAGE	300	VOLTS
MAXIMUM HEXODE SCREEN (Gs) SUPPLY VOLTAGE	300	VOLTS
MAXIMUM HEXODE SCREEN (Gs) VOLTAGE	150	VOLTS
MAXIMUM HEXODE PLATE DISSIPATION	0.75	WATT
MAXIMUM HEXODE SCREEN DISSIPATION	0.7	WATT
MAXIMUM TOTAL CATHODE CURRENT	16	MA.
MINIMUM EXTERNAL SIGNAL GRID (G) BIAS VOLTAGE	0	VOLTS
MAXIMUM OSCILLATOR ANODE (Po) VOLTAGE	125	VOLTS
MAXIMUM OSCILLATOR ANODE DISSIPATION	0.75	WATT

FOR "INTERPRETATION OF RATINGS" REFER TO FRONT OF BOOK.

CONTINUED NEXT PAGE

TUNG-SOL

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CONVERTER SERVICE

HEXODE PLATE (P) VOLTAGE	100	250	VOLTS
HEXODE SCREEN (G _s) VOLTAGE	100	100	VOLTS
HEXODE CONTROL GRID (G) VOLTAGE	-3	-3	VOLTS
OSCILLATOR ANODE (P _o) VOLTAGE	100	100	VOLTS
HEXODE PLATE CURRENT	2.3	2.5	MA.
HEXODE SCREEN CURRENT	6.2	6.0	MA.
OSCILLATOR ANODE CURRENT	3.8	3.8	MA.
OSCILLATOR GRID (G _o) CURRENT	0.15	0.15	MA.
TOTAL CATHODE CURRENT	12.5	12.5	MA.
OSCILLATOR GRID RESISTOR	50 000	50 000	OHMS
CONVERSION TRANSCONDUCTANCE	325	350	μMHOS
HEXODE PLATE RESISTANCE ^{APPROX.}	0.4	0.6	MEGOHM
HEXODE CONTROL GRID VOLTAGE ^{APPROX.}	-30	-30	VOLTS

FOR CONVERSION TRANSCONDUCTANCE = 2 μMHOS

DIRECT INTERELECTRODE CAPACITANCES^S

	6K8	6K8G 6K8GT
SIGNAL GRID TO MIXER PLATE (G TO P)	0.03 ^{MAX.}	0.08 ^{MAX.} μμf
SIGNAL GRID TO OSCILLATOR PLATE (G TO P _o)	0.02 ^{MAX.}	0.05 ^{MAX.} μμf
SIGNAL GRID TO OSCILLATOR GRID (G TO G _o)	0.2 ^{MAX.}	0.2 ^{MAX.} μμf
OSCILLATOR GRID TO OSCILLATOR PLATE (G _o TO P _o)	1.1	1.8 μμf
SIGNAL INPUT: G _o TO ALL OTHER ELECTRODES	6.6	4.6 μμf
OSCILLATOR INPUT: G _o TO ALL OTHER ELECTRODES EXCEPT P _o	6.0	6.5 μμf
OSCILLATOR OUTPUT: P _o TO ALL OTHER ELECTRODES EXCEPT G _o	3.2	3.4 μμf
MIXER OUTPUT: P TO ALL OTHER ELECTRODES	3.5	4.8 μμf
OSCILLATOR GRID TO MIXER PLATE (G _o TO P)	0.1 ^{MAX.}	0.15 ^{MAX.} μμf

^A WITH EXTERNAL SHIELD OR SHELL CONNECTED TO CATHODE.

NOTE: THE TRANSCONDUCTANCE OF THE OSCILLATOR SECTION (NOT OSCILLATING) IS APPROXIMATELY 3000 μMHOS WHEN THE TRIODE PLATE VOLTAGE IS 100 VOLTS, AND THE TRIODE GRID VOLTAGE IS ZERO VOLTS.