

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 ₀) 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 ₀) 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.} μmf
SIGNAL GRID TO OSCILLATOR PLATE (G TO P ₀)	0.02 ^{MAX.}	0.05 ^{MAX.} μmf
SIGNAL GRID TO OSCILLATOR GRID (G TO G ₀)	0.2 ^{MAX.}	0.2 ^{MAX.} μmf
OSCILLATOR GRID TO OSCILLATOR PLATE (G ₀ TO P ₀)	1.1	1.8 μmf
SIGNAL INPUT: G ₀ TO ALL OTHER ELECTRODES	6.6	4.6 μmf
OSCILLATOR INPUT: G ₀ TO ALL OTHER ELECTRODES EXCEPT P ₀	6.0	6.5 μmf
OSCILLATOR OUTPUT: P ₀ TO ALL OTHER ELECTRODES EXCEPT G ₀	3.2	3.4 μmf
MIXER OUTPUT: P TO ALL OTHER ELECTRODES	3.5	4.8 μmf
OSCILLATOR GRID TO MIXER PLATE (G ₀ TO P)	0.1 ^{MAX.}	0.15 ^{MAX.} μmf

^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.