

TUNG-SOL

BEAM POWER AMPLIFIER
PHYSICAL SPECIFICATIONS

EMITTER	UNIPOTENTIAL CATHODE	PIN CONNECTIONS	
BASE	INTER. SHELL OCTAL 7-PIN	PIN 1	NO CONN.
CAP	NONE	PIN 2	HEATER
BULB	T-9	PIN 3	PLATE
MAXIMUM DIAMETER	1 5/16"	PIN 4	GRID 2
MAXIMUM OVERALL LENGTH	3 1/4"	PIN 5	GRID 1
MAXIMUM SEATED HEIGHT	2 11/16"	PIN 6	NONE
		PIN 7	HEATER
		PIN 8	CATH. & DEFL.
			TOP CAP NONE

RATINGS

HEATER OR FILAMENT VOLTAGE	12.6	VOLTS
HEATER OR FILAMENT CURRENT	0.15	AMPS.
MAXIMUM PLATE VOLTAGE	250	VOLTS
MAXIMUM SCREEN VOLTAGE	250	VOLTS
MAXIMUM PLATE DISSIPATION	7.5	WATTS
MAXIMUM SCREEN DISSIPATION	1.5	WATTS

RATINGS ARE TO BE INTERPRETED ACCORDING TO RMA STANDARD M8-210

CAPACITANCES

CONTROL GRID TO CATHODE	9.0	μ mf
PLATE TO CATHODE	9.0	μ mf
GRID TO PLATE	0.6	MAX. μ mf

WITH STANDARD RMA SHIELD M8-308

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
CLASS A₁ AMPLIFIER

HEATER OR FILAMENT VOLTAGE	12.6	VOLTS
HEATER OR FILAMENT CURRENT	0.15	AMPS.
PLATE VOLTAGE	250	VOLTS
SCREEN VOLTAGE	250	VOLTS
CONTROL GRID VOLTAGE	-12.5	VOLTS
PEAK AF SIGNAL VOLTAGE	12.5	VOLTS
ZERO-SIGNAL PLATE CURRENT	30	MA.
ZERO-SIGNAL SCREEN CURRENT	3.5	MA.
MAXIMUM-SIGNAL PLATE CURRENT	32	MA.
MAXIMUM-SIGNAL SCREEN CURRENT	5.5	MA.
PLATE RESISTANCE		MEGOHMS
TRANSCONDUCTANCE	3000	μ MHOS
AMPLIFICATION FACTOR		
LOAD RESISTANCE	7500	OHMS
TOTAL HARMONIC DISTORTION	7	PER CENT
POWER OUTPUT	3.0	WATTS

THE DC RESISTANCE IN THE GRID CIRCUIT, UNDER RATED MAXIMUM CONDITIONS FOR THE TYPE 12A6GT SHOULD NOT EXCEED 0.5 MEGOHM FOR SELF-BIAS OPERATION AND 0.1 MEGOHM FOR FIXED BIAS OPERATION.