

TUNG-SOL

DIODE AMPLIFIER PENTODE

PHYSICAL SPECIFICATIONS

EMITTER COATED UNIPOT. CATHODE		PIN CONNECTIONS	
BASE 8 PIN OCTAL WAFER WITH		PIN 1 BASE SHELL, INTER-PIN SHIELD	
METAL SHELL		PIN 2 GRID 1	PIN 7 HEATER
BULB T-9		PIN 3 G3, S1, K	PIN 8 HEATER
MAXIMUM DIAMETER	1 5/16"	PIN 4 GRID 2	
MAXIMUM OVERALL LENGTH	3 5/16"	PIN 5 DI. PLATE	MOUNTING POS. ANY
MAXIMUM SEATED HEIGHT	2 3/4"	PIN 6 PENT. PLATE	

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER OR FILAMENT VOLTAGE (AC OR DC)	12.6	VOLTS
HEATER OR FILAMENT CURRENT	0.15	AMP.
MAXIMUM PENTODE PLATE VOLTAGE	300	VOLTS
MAXIMUM SCREEN VOLTAGE	100	VOLTS
MAXIMUM PENTODE PLATE DISSIPATION	3.5	WATTS
MAXIMUM SCREEN DISSIPATION	0.5	WATT
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM SCREEN SUPPLY VOLTAGE	300	VOLTS
MINIMUM DIODE PLATE CURRENT		
WITH 10 VOLTS DC APPLIED	0.8	MA.

CAPACITANCES

WITH EXTERNAL SHIELD CONNECTED TO CATHODE

WITH EXTERNAL SHIELD CONNECTED TO CATHODE		
CONTROL GRID TO CATHODE	5.5	$\mu\mu f$
PENTODE PLATE TO CATHODE	6.0	$\mu\mu f$
GRID TO PENTODE PLATE	0.004	$\mu\mu f$ (MAX.)
DIODE PLATE TO PENTODE GRID 1	0.002	$\mu\mu f$ (MAX.)
DIODE PLATE TO PENTODE PLATE	1.3	$\mu\mu f$

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
CLASS A₁ AMPLIFIER

CLASS A₁ AMPLIFIER

HEATER OR FILAMENT VOLTAGE	12.6	12.6	VOLTS
HEATER OR FILAMENT CURRENT	0.15	0.15	AMP
PLATE VOLTAGE	100	250	VOLTS
SCREEN VOLTAGE	100	100	VOLTS
CONTROL GRID VOLTAGE	-1	-1	VOLT
PEAK AF SIGNAL VOLTAGE			VOLTS
PLATE CURRENT	12	12.4	MA.
SCREEN CURRENT	3.4	3.3	MA.
MAXIMUM-SIGNAL PLATE CURRENT			MA.
MAXIMUM-SIGNAL SCREEN CURRENT			MA.
PLATE RESISTANCE (APPROX.)	0.2	0.7	MEGOHM
TRANSCONDUCTANCE	1975	2050	μMHOS
AMPLIFICATION FACTOR			
LOAD RESISTANCE			OHMS
TOTAL HARMONIC DISTORTION			PER CENT
POWER OUTPUT			WATTS
CONTROL GRID VOLTAGE (APPROX.) FOR TRANSCONDUCTANCE=10 μMHOS	-35	-35	VOLTS

12SF7GT

