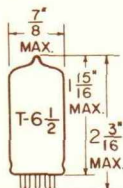


TUNG-SOL

TWIN TRIODE

MINIATURE TYPE



GLASS BULB

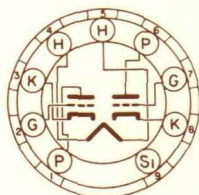
COATED UNIPOTENTIAL CATHODE

HEATER

12.6 VOLTS 0.15 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

SMALL-BUTTON
9-PIN NOVAL

90°

THE 12DT8 IS A GENERAL-PURPOSE HIGH-MU TWIN TRIODE OF THE 9-PIN MINIATURE TYPE INTENDED FOR USE AS AN RF AMPLIFIER AND AS A COMBINED OSCILLATOR-MIXER IN FM TUNERS. THIS TUBE IS ALSO USEFUL IN A WIDE VARIETY OF APPLICATIONS IN RADIO AND TELEVISION RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

WITH EXTERNAL SHIELD

	UNIT #1	UNIT #2	
GRID-DRIVE OPERATION: ^A			
GRID TO PLATE	1.6	1.6	$\mu\mu f$
GRID TO CATHODE, HEATER & I.S.	2.7	2.7	$\mu\mu f$
PLATE TO CATHODE, HEATER & I.S.	1.6	1.6	$\mu\mu f$
HEATER TO CATHODE	3.0	3.0	$\mu\mu f$
CATHODE-DRIVE OPERATION: ^B			
CATHODE TO GRID, HEATER, & I.S.	---	5.3	$\mu\mu f$
PLATE TO GRID, HEATER, & I.S.	---	2.8	$\mu\mu f$

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

CLASS A₁ AMPLIFIER

EACH UNIT

HEATER VOLTAGE	12.6	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM GRID VOLTAGE:		
NEGATIVE BIAS VALUE	50	VOLTS
MAXIMUM PLATE DISSIPATION	2.5	WATTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE	200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	200 ^C	VOLTS
MAXIMUM GRID-CIRCUIT RESISTANCE:		
FOR FIXED-BIAS OPERATION	0.25	MEGOHM
FOR CATHODE-BIAS OPERATION	1	MEGOHM

^A WITH EXTERNAL SHIELD, #315 CONNECTED TO CATHODE OF UNIT UNDER TEST.

^B WITH EXTERNAL SHIELD, #315, CONNECTED TO GRID OF UNIT UNDER TEST.

^C DC COMPONENT MUST NOT EXCEED 100 VOLTS.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER
EACH UNIT

HEATER VOLTAGE	12.6	12.6	VOLTS
HEATER CURRENT	0.15	0.15	AMP.
PLATE-SUPPLY VOLTAGE	100	250	VOLTS
CATHODE-BIAS RESISTOR	270	200	OHMS
AMPLIFICATION FACTOR	60	60	
PLATE RESISTANCE (APPROX.)	15 000	10 900	OHMS
TRANSCONDUCTANCE	4 000	5 500	μMHOS
PLATE CURRENT	3.7	10	MA.
GRID VOLTAGE (APPROX.) FOR PLATE CURRENT OF 10 μA.	-5	-12	VOLTS

