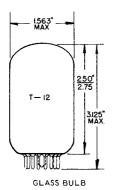
TUNG-SOL -

PENTODE



BUTTON 12 PIN BASE E12-74 **OUTLINE DRAWING JEDEC 12-57**

BEAM POWER VHF PENTODE

COMPACTRON

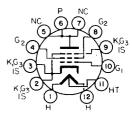
FOR

RF POWER AMPLIFIER

AND OSCILLATOR APPLICATIONS

ANY MOUNTING POSITION

COATED UNIPOTENTIAL CATHODE



BOTTOM VIEW BASING DIAGRAM JEDEC 12DT

PINS 5, 6 & 7 MUST BE USED IN PARALLEL

THE 8149 IS A BEAM POWER AMPLIFIER PENTODE IN THE SINGLE-ENDED T-12 COMPACTRON DE-SIGN. IT IS INTENDED FOR USE AS AN RF POWER AMPLIFIER AND OSCILLATOR AT FREQUENCIES UP TO 175 MEGACYCLES, WITH A MAXIMUM PLATE DISSIPATION RATING OF 35 WATTS UNDER ICAS CONDITIONS. IT FEATURES A CENTER-TAPPED HEATER SO IT MAY BE OPERATED FROM EITHER A 3-CELL OR A 6-CELL STORAGE BATTERY SYSTEM.

A SIMILAR TUBE IN A DOUBLE-ENDED DESIGN IS REGISTERED AS TYPE 8150.

→ DIRECT INTERELECTRODE CAPACITANCES WITHOUT EXTERNAL SHIELD

GRID 1 TO PLATE: G1 TO P 0.35 рf INPUT: G1 TO (H+K+G2+G3+I,S.) 13.0 ρf OUTPUT: P TO (H+K+G2+G3+1.S.) 6.0 ρf

HEATER CHARACTERISTICS AND RATINGS ABSOLUTE MAXIMUM SYSTEM - SEE EIA STANDARD RS-239

SUPPLY CONNECTED TO PINS	1 & 12	11 & 1+12	
AVERAGE VALUES - VOLTAGE	13.0	6.5	VOLTS
- CURRENT	0.60	1.20	AMPS.
LIMITS OF APPLIED HEATER VOLTAGE	11.0 - 15.0	5.5 - 7.5	VOLTS
MIXIMUM HEATER-CATHODE VOLTAGE			
EITHER POLARITY	1	35	VOLTS

CONTINUED ON FOLLOWING PAGE

---- TUNG-SOL ----

CONTINUED FROM PRECEDING PAGE

AVERAGE STATIC CHARACTERISTICS

PLATE VOLTAGE	200	VOLTS
GRID 2 VOLTAGE	200	VOLTS
PLATE CURRENT	100	MA.
TRANSCONDUCTANCE	7500	µ MHOS
AMPLIFICATION FACTOR, TRIODE CONNECTED	4.5	•

MAXIMUM RATINGS

ABSOLUTE MAXIMUM SYSTEM - SEE EIA STANDARD RS-239

RF POWER AMPLIFIER AND OSCILLATOR - CLASS C TELEGRAPHY

RF POWER AMPLIFIER - CLASS C TELEPHONY

ICAS INTERMITTENT COMMERCIAL AND AMATEUR SERVICE

FOR FREQUENCIES UP TO		175		60	MC
PLATE VOLTAGE -DC		450		750	VOLTS
GRID 2 VOLTAGE		250		250	VOLTS
GRID 1 VOLTAGE - DC		-150		150	VOLTS
CATHODE CURRENT-DC	→ :	220		220	MA.
PLATE DISSIPATION	;	35		35	WATTS
GRID 2 DISSIPATION	;	3.3		3.3	WATTS
BULB TEMPERATURE		2	240		°C

→ TYPICAL OPERATION

CLASS C AMPLIFIER AT 175 MC/S

PLATE VOLTAGE	380	VOLTS
GRID 2 SUPPLY VOLTAGE	380	VOLTS
GRID 2 DROPPING RESISTOR	10	KOHMS
GRID 1 VOLTAGE	-78	VOLTS
FROM GRID 1 RESISTOR	27	KOHMS
ADDITIONAL FIXED BIAS	-24	VOLTS
PEAK RF GRID 1 VOLTAGE	120	VOLTS
PLATE CURRENT	180	MA.
GRID 2 CURRENT	12	MA.
GRID 1 CURRENT	2.0	MA.
DRIVING POWER - APPROX.	2	WATTS
POWER OUTPUT	40	WATTS

⁻ INDICATES A CHANGE.