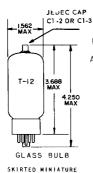
TUNG-SOL -

BEAM PENTODE



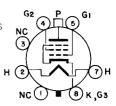
SHORT MEDIUM-SHELL
6 PIN OCTAL 86-122,
86-146 OR
7 PIN OCTAL
87-111, 87-119 OR 85-190 --0UTLINE DRAWING
JEGEC 12-51

COATED UNIPOTENTIAL CATHODE

FOR HGRIZONTAL DEFLECTION AMPLIFIER APPLICATIONS IN TELEVISION RECEIVERS

ANY MOUNTING POSITION

PIN #1 IS OMITTED WHEN EITHER A B6-122 OR B6-148 BASE IS USED



BASING DIAGRAM JEDEC 6AM

THE 17D06B IS A BEAM POWER PENTODE PRIMARILY DESIGNED FOR USE AS THE HORIZONTAL-DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS. ITS HIGH ZERO-BIAS PLATE CURRENT AT LOW PLATE AND SCREEN VOLTAGES MAKES THE TUBE WELL SUITED FOR USE IN RECEIVERS THAT OPERATE AT LOW PLATE-SUPPLY VOLTAGES. EXCEPT FOR HEATER RATINGS AND HEATER WARM-UP TIME, THE 17DQ6B IS IDENTICAL TO THE 6D06B.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

WITHOUT EXTERNAL SHIELD

GRID TO PLATE (G TO P)	0.5	рf
INPUT: (G1 TO H+K, BP + G2)	15.0	рf
OUTPUT: (P TO H+K, BP + B2)	7.0	рf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE E1A STANDARD RS-239

AVERAGE CHARACTERISTICS	16.8 VOLTS	450	MA.
HEATER SUPPLY LIMITS:			
CURRENT OPERATION		450±30	MA.
MAXIMUM HEATER-CATHODE VOLTAGE:			
HEATER POSITIVE WITH RESPECT TO CAT	HODE		
DC		100	VOLTS
TOTAL DC AND PEAK		200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CAT	HODE		
TOTAL DC AND PEAK		200	VOLTS
HEATER WARM-UP TIME, APPROX.*		11	SECONDS

→INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

--- TUNG-SOL --

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

HORIZONTAL DEFLECTION AMPLIFIERA

PLATE SUPPLY VOLTAGE, DC (BOOST+DC POWER SUPPLY)	770	VOLTS
PLATE VOLTAGE, PEAK PULSE, POSITIVE	6500	VOLTS
PLATE VOLTAGE, PEAK PULSE, NEGATIVE	1500	VOLTS
PLATE DISSIPATION, B	18	WATTS
GRID #1 VOLTAGE, PEAK PULSE, NEGATIVE	330	VOLTS
GRID #2 VOLTAGE, DC	220	VOLTS
GRID #2 DISSIPATION	3.6	WATTS
CATHODE CURRENT, AVERAGE	175	MA.
CATHODE CURRENT, PEAK	610	MA.
GRID #1 CIRCUIT RESISTANCE, B	1.0	медонм
BULB TEMPERATURE, (AT HOTTEST POINT)	220	°c

AVERAGE CHARACTERISTICS

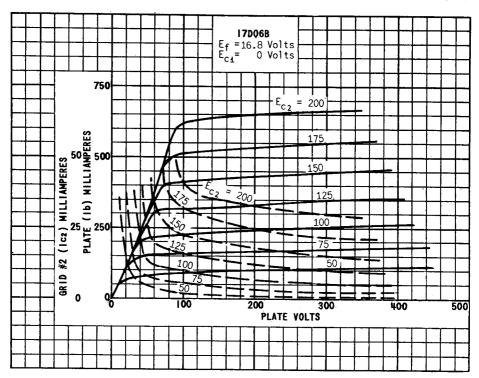
PENTODE OPERATION: Eb =250V, Ec2 =150V, Ec1=-22.5V.		
PLATE CURRENT	65	MA.
GRID #2 CURRENT	1.8	MA.
TRANSCONDUCTANCE	7300	µмноs
PLATE RESISTANCE, APPROX.	18,000	OHMS
ZERO BIAS: Eb = 60V, Ec2 = 150V. (INSTANTANEOUS VAL	UES)	
PLATE CURRENT	345	MA.
GRID #2 CURRENT	27	MÁ.
CUTOFF: Ib = 1 MA , Eb = 250 V , Ec2 = 150 V .		
GRID #1 VOLTAGE, APPROX.	-42	VOLTS
CUTOFF: Ib = 1 Ma, Eb = 5000 V, Ec2 = 150 V.		
GRID #1 VOLTAGE, APPROX.	-100	VOLTS
TRIODE MU: Eb = Ec2 = 150 V, Ec1 =-22.5 V.	4.4	

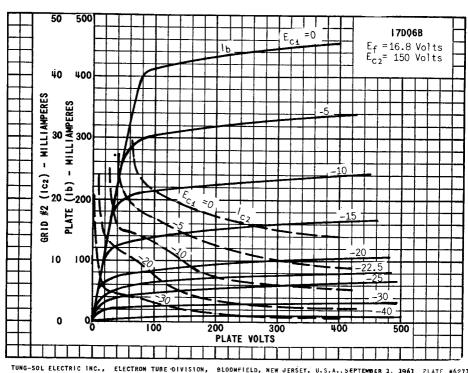
--- INDICATES A CHANGE.

A FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS: FEDERAL COMMUNICATIONS COMMISSION", THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE.

D. IN STAGES OPERATING WITH GRID L€AK BIAS, AN ADEQUATE CATHODE BIAS RESISTOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

*HEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80\$ OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.





BLOOMFIELD, NEW JERSEY,

17DQ6B

