TUNG-SOL

TRIODE-PENTODE

COMPACTRON

MEDIUM-MU TRIODE AND BEAM PENTODE

FOR

VERTICAL-DEFLECTION OSCILLATOR

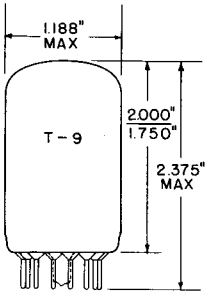
AND VERTICAL-DEFLECTION AMPLIFIER

SERVICE

IN T.V. APPLICATIONS

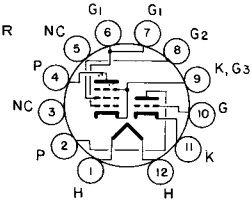
COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



GLASS BULB

BUTTON
12 PIN BASE E12-70
OUTLINE DRAWING
JEDEC 9-58



BOTTOM VIEW

BASING DIAGRAM
JEDEC 12 DZ

THE 17JZ8 IS A MEDIUM - MU TRIODE AND A BEAM PENTODE IN THE 12 PIN COMPACTRON CONSTRUCTION. THE TRIODE IS DESIGNED FOR SERVICE AS A VERTICAL-DEFLECTION OSCILLATOR AND THE PENTODE AS A VERTICAL-DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

PENTODE SECTION	
GRID 1 TO PLATE (g TO p)	0.34 pf
INPUT: G1 TO (H + K + G_2 + G_3)	11 pf
OUTPUT: P TO (H + K + G_2 + G_3)	7.0 pf
TRIODE SECTION	
GRID TO PLATE (G TO P)	3.6 pf
INPUT: G TO (H + K)	2.2 pf
OUTPUT: P TO (H + K)	0.7 pf

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HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUE - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	16.8 VOLTS	450	MA
HEATER WARM-UP TIME		11	SECONDS
LIMITS OF SUPPLIED CURRENT		450, ± 30	MA
HEATER-CATHODE VOLTAGE:			
DC COMPONENT		100	VOLTS
TOTAL DC AND PEAK		200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK		200	VOLTS

MAXIMUM RATINGS

DESIGN MAXIMUM RATINGS - SEE EIA STANDARD RS-239

	TRIODE SECTION	PENTODE SECTION	
	VERTICAL OSCILLATOR [A] SERVICE	VERTICAL DEFLECTION [A] AMPLIFIER SERVICE	
PLATE VOLTAGE - DC	250	250	VOLTS
PEAK PULSE PLATE VOLTAGE		2,000	VOLTS
GRID 2 VOLTAGE		200	VOLTS
PEAK NEGATIVE GRID 1 VOLTAGE	400	150	VOLTS
PLATE DISSIPATION	1.0	7.0 [B]	WATTS
GRID 2 DISSIPATION		1.8	WATTS
CATHODE CURRENT - DC	20	70	MA
PEAK CATHODE CURRENT	70	245	MA
GRID 1 CIRCUIT RESISTANCE			
WITH FIXED BIAS	1.0	1.0	MEGOHMS
WITH CATHODE BIAS	2.0	2.0	MEGOHMS

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

B IN STAGES OPERATING WITH GRID-LEAK BIAS, AN ADEQUATE CATHODE-BIAS RESISTOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE.

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CHARACTERISTICS AND TYPICAL OPERATION

	TRIODE SECTION	PENTODE SECTION		
PLATE VOLTAGE	150	45	120	VOLTS
GRID 2 VOLTAGE		110	110	VOLTS
GRID 1 VOLTAGE	-5.0	0 [C]	-8.0	VOLTS
PLATE CURRENT	5.5	122	46	MA
GRID 2 CURRENT		16.5	3.5	MA
AMPLIFICATION FACTOR	20			
TRANSCONDUCTANCE	2,350		7,100	μMHOS
PLATE RESISTANCE - APPROX.	8.5		11.7	KOHMS
GRID 1 VOLTAGE FOR I_b = 10 μA APPROX.	-11		-25	VOLTS

C APPLIED FOR SHORT INTERVAL (2 SECONDS) SO AS NOT TO DAMAGE TUBE.

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