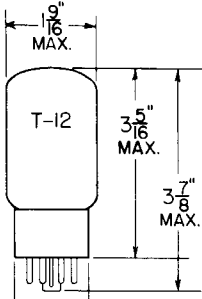


**TUNG-SOL**

TWIN PENTODE



GLASS BULB

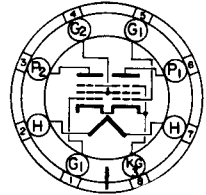
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 1.52 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

SHORT MEDIUM SHELL  
8 PIN OCTAL

8JP.

THE 6DZ7 IS A TWIN POWER PENTODE ESPECIALLY SUITABLE FOR COMPACT STEREO SYSTEMS. IT IS DESIGNED FOR USE IN THE OUTPUT STAGE OF HIGH-FIDELITY AUDIO AMPLIFIERS.

**DIRECT INTERELECTRODE CAPACITANCES - approx.**

WITHOUT EXTERNAL SHIELD

GRID #1 TO PLATE	.07	0.5	$\mu\mu\text{f}$
INPUT	11	11	$\mu\mu\text{f}$
OUTPUT	5.0	5.0	$\mu\mu\text{f}$
GRID #1, SECTION 1 TO GRID #1, SECTION 2	0.03		$\mu\mu\text{f}$
PLATE, SECTION 1 TO PLATE, SECTION 2	1.5		$\mu\mu\text{f}$

**RATINGS**

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM <sup>A</sup>

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM PLATE VOLTAGE	440	VOLTS
MAXIMUM SCREEN VOLTAGE	300	VOLTS
MAXIMUM PLATE DISSIPATION	13.2	WATTS
MAXIMUM SCREEN DISSIPATION, TOTAL	4.0	WATTS

<sup>A</sup> EACH SECTION UNLESS OTHERWISE INDICATED.

CONTINUED ON FOLLOWING PAGE

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## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## RATINGS - cont'd.

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM<sup>A</sup>

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER POSITIVE WITH RESPECT TO CATHODE		
DC COMPONENT	100	VOLTS
TOTAL DC AND PEAK	200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	200	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	0.27	MEGOHMS

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

## AVERAGE CHARACTERISTICS - EACH SECTION

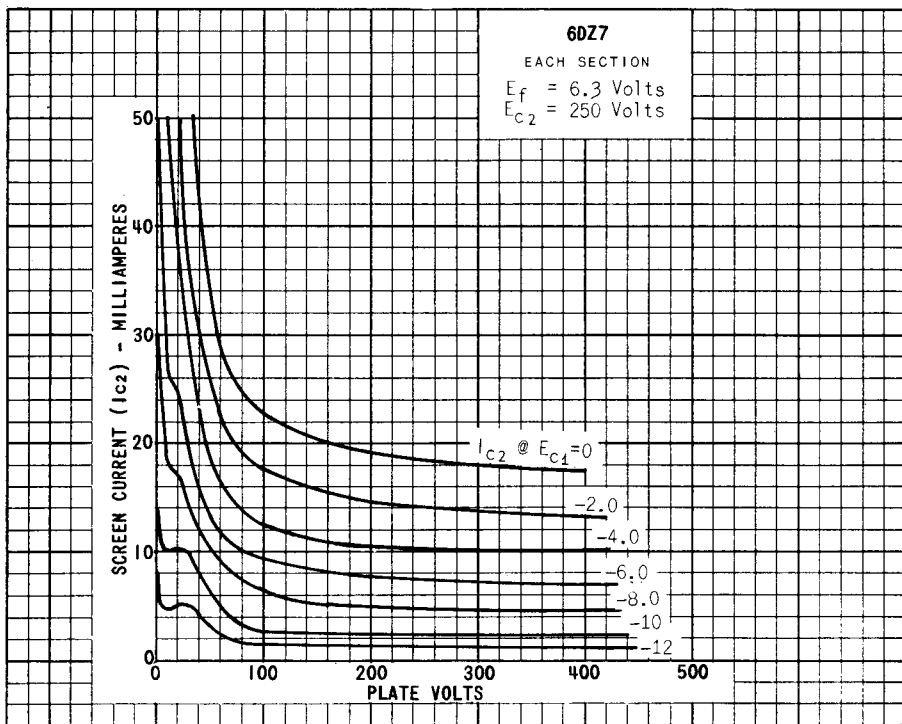
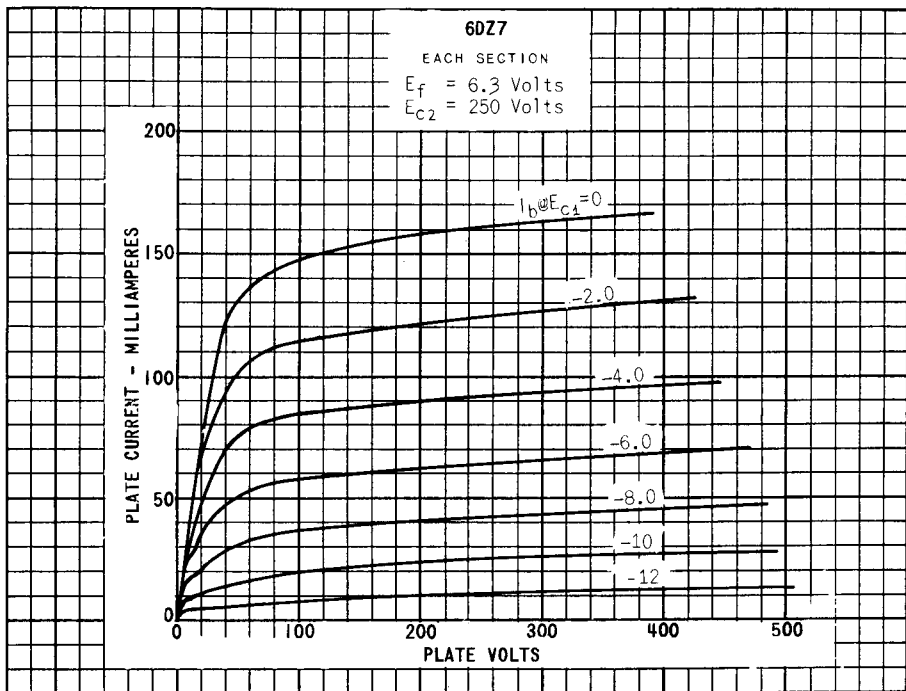
HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	1.52	AMP.
PLATE VOLTAGE	250	VOLTS
SCREEN VOLTAGE	250	VOLTS
GRID #1 VOLTAGE	-7.3	VOLTS
PLATE RESISTANCE (APPROX.)	38000	OHMS
TRANSCONDUCTANCE	11300	μMHOS
PLATE CURRENT	48	MA.
SCREEN CURRENT	5.5	MA.

PUSH-PULL CLASS AB<sub>1</sub> AMPLIFIER - SINGLE TUBE

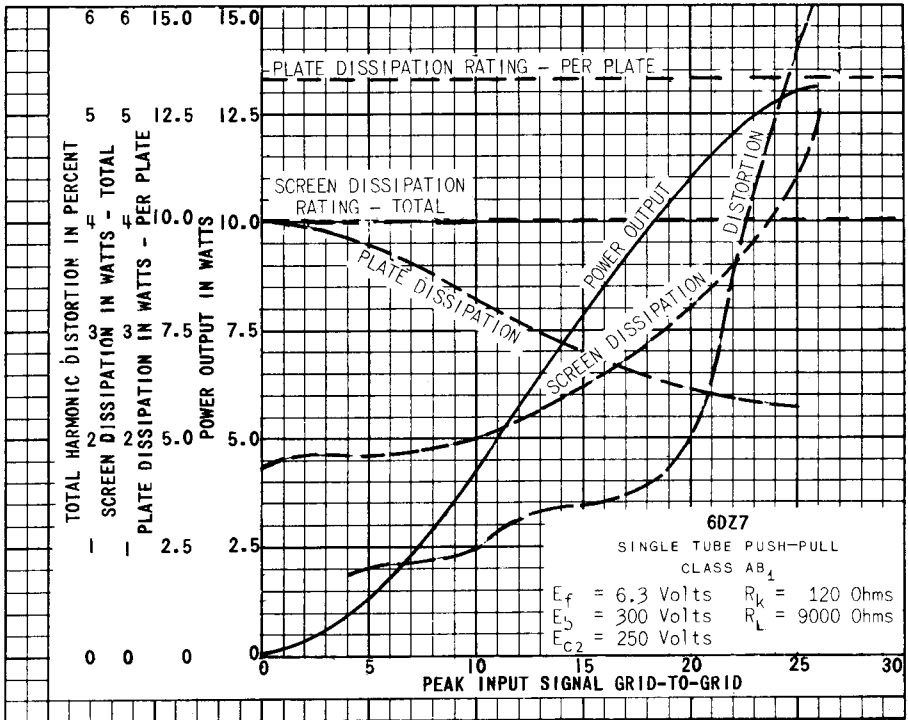
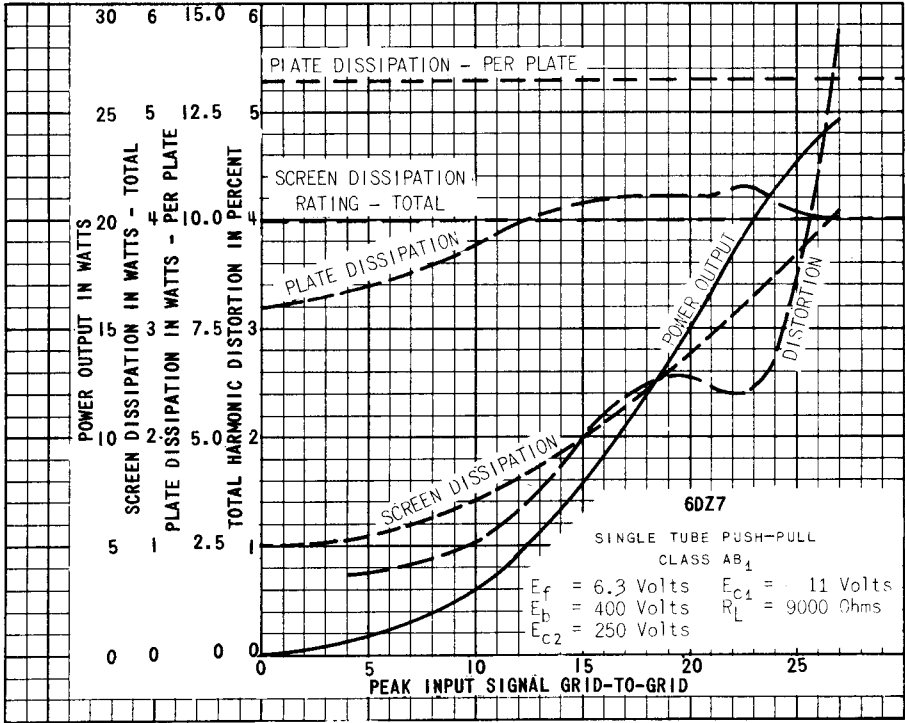
	FIXED BIAS	CATHODE BIAS	
HEATER VOLTAGE		6.3	VOLTS
HEATER CURRENT		1.52	AMP.
PLATE VOLTAGE	400	300	VOLTS
SCREEN VOLTAGE	250	250	VOLTS
GRID #1 VOLTAGE	-11	---	VOLTS
CATHODE-BIAS RESISTOR	---	120	OHMS
PEAK AF GRID-TO-GRID VOLTAGE	22	22	VOLTS
ZERO-SIGNAL PLATE CURRENT	40	66	MA.
MAXIMUM-SIGNAL PLATE CURRENT	100	80	MA.
ZERO-SIGNAL SCREEN CURRENT	4.0	7.0	MA.
MAXIMUM-SIGNAL SCREEN CURRENT	13	15	MA.
EFFECTIVE LOAD RESISTANCE, PLATE-TO-PLATE	9000	9000	OHMS
TOTAL HARMONIC DISTORTION	2.5	3.5	PERCENT
MAXIMUM-SIGNAL POWER OUTPUT	18	12	WATTS

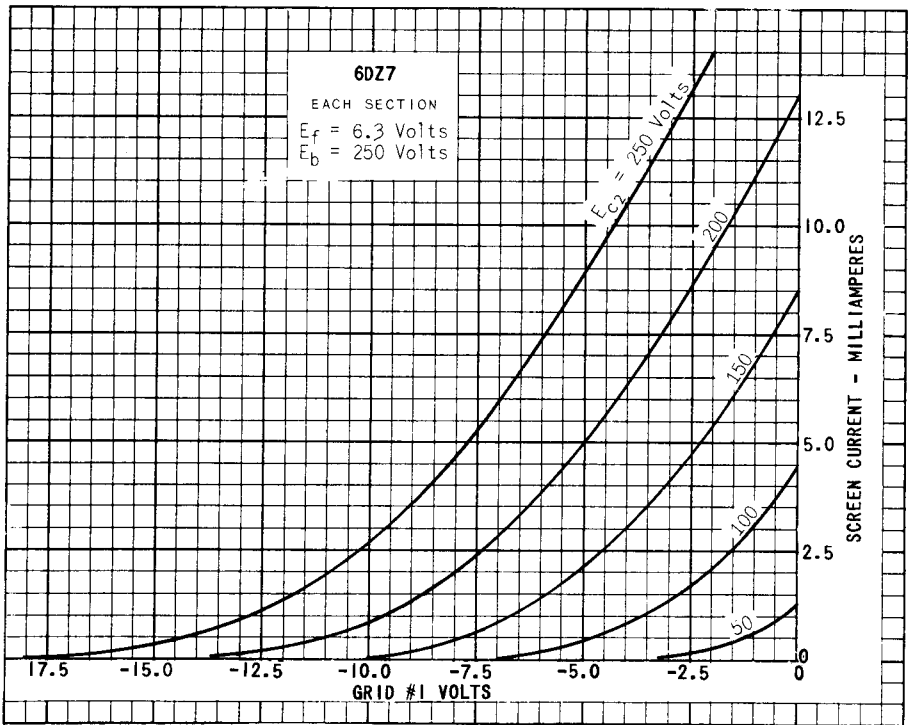
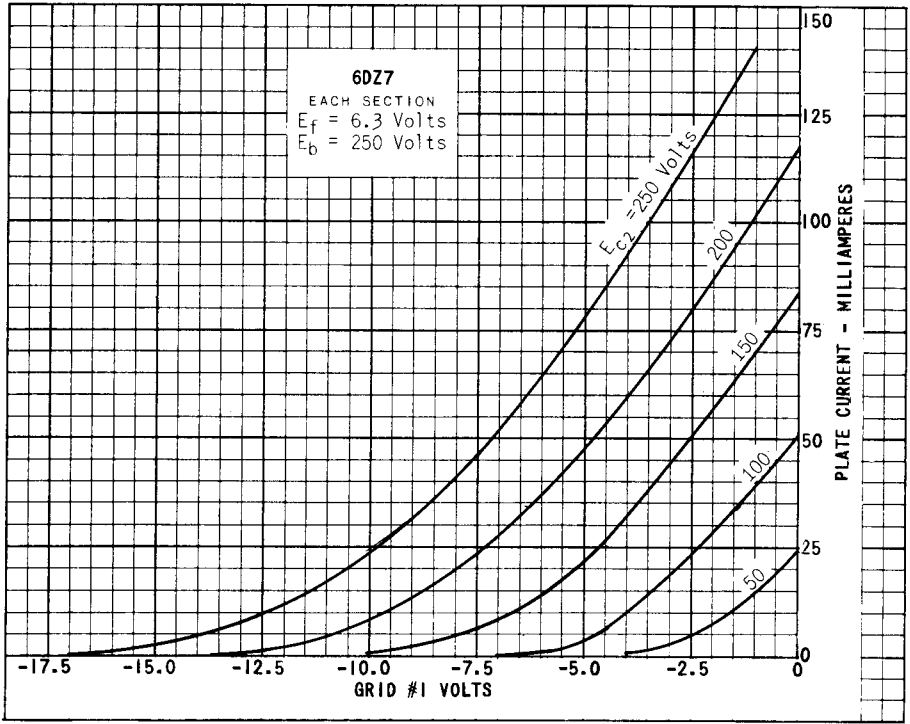
DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO A BOGEY TUBE OF A SPECIFIED TYPE AS DEFINED BY ITS PUBLISHED DATA, AND SHOULD NOT BE EXCEEDED UNDER THE WORST PROBABLE CONDITIONS. THE TUBE MANUFACTURER CHOOSES THESE VALUES TO PROVIDE ACCEPTABLE SERVICEABILITY OF THE TUBE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CHANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN TUBE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND THROUGHOUT LIFE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A BOGEY TUBE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS.

<sup>A</sup> EACH SECTION UNLESS OTHERWISE INDICATED.



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