



7X7

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DOUBLE DIODE-HIGH-MU TRIODE

GENERAL DATA

Electrical:

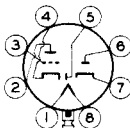
Heater, for Unipotential Cathodes:

Voltage	6.3 [□]	ac or dc volts
Current	0.3 ^{□□}	amp

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-25/32"
Maximum Seated Length	2-1/4"
Maximum Diameter	1-3/16"
Bulb	T-9
Base	Lock-in 8-Pin
Basing Designation for BOTTOM VIEW	8E2

Pin 1 - Heater
 Pin 2 - Triode Plate
 Pin 3 - Triode Grid
 Pin 4 - Cathode
 (Triode &
 Diode No.1)
 Internal
 Shield



Pin 5 - Diode Plate
 No.1
 Pin 6 - Diode Plate
 No.2
 Pin 7 - Cathode
 (Diode No.2)
 Pin 8 - Heater
 Plug - Base Shell

TRIODE UNIT AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300 max.	volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

Typical Operation and Characteristics:

Plate Voltage	100	250	volts
Grid Voltage	0	-1	volt
Amplification Factor	85	100	
Plate Resistance	85000	67000	ohms
Transconductance	1000	1500	μmhos
Plate Current	1.2	1.9	ma

DIODE UNITS - Two

The 7X7 differs from the usual twin-diode-triode in that diode No.2 has its own cathode, separate from that used for the triode and diode No.1.

- Nominal voltage = 7.0 volts.
- Nominal current = 0.32 ampere.